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MBTA GREEN LINE TESTS
RIVERSIDE LINE
DECEMBER 1972

VOLUME V
GAGE COMPUTER PRINTOUT

George W. Neat, Editor



OCTOBER 1973
FINAL REPORT

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DEPARTMENT OF TRANSPORTATION

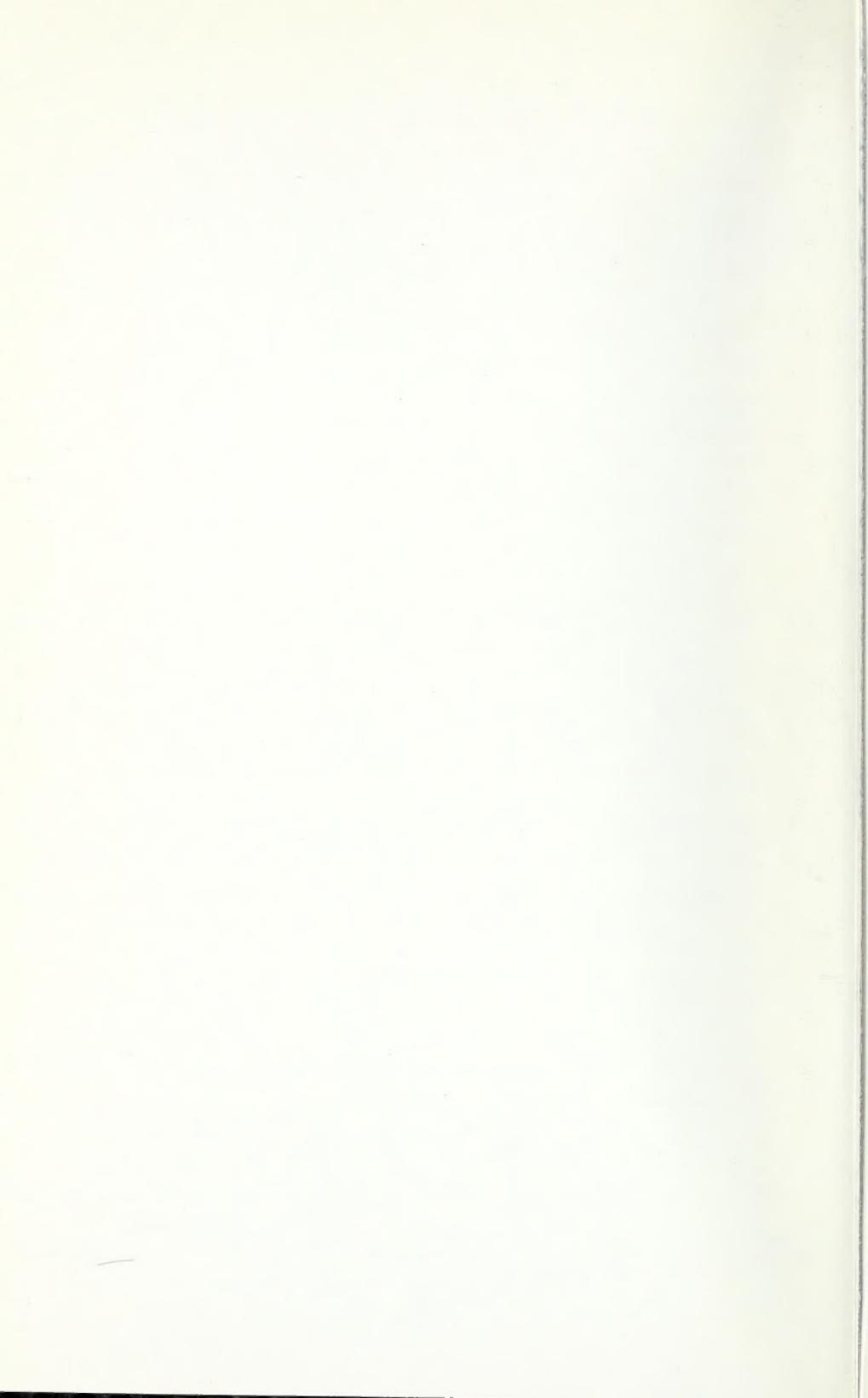
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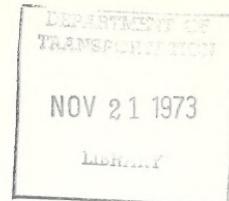
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16. Abstract The UMTA sponsored Urban Rail Supporting Technology Program emphasizes three major task areas; facilities development, technology development, and test program development. The test program development is composed of three sub-areas; vehicle testing, ways and structures testing, and track geometry measurement. This report, in five volumes, presents the technical methodology, data samples, and results of tests conducted on the Massachusetts Bay Transit Authority (MBTA) Green Line in December, 1972 prior to initiation of the Green Line refurbishment effort.		
An instrumented revenue type car was used for the measurement of track geometry, ride roughness, and interior noise. Actual car speed was approximately the same as normal revenue speed. The objectives of the tests were to identify critical track sections for improvement to quantify the benefits produced by the track rehabilitation program, and to provide data for TSC's development of an advanced track geometry measurement system.		
Volume V presents the gage computer printout for the complete length of track.		
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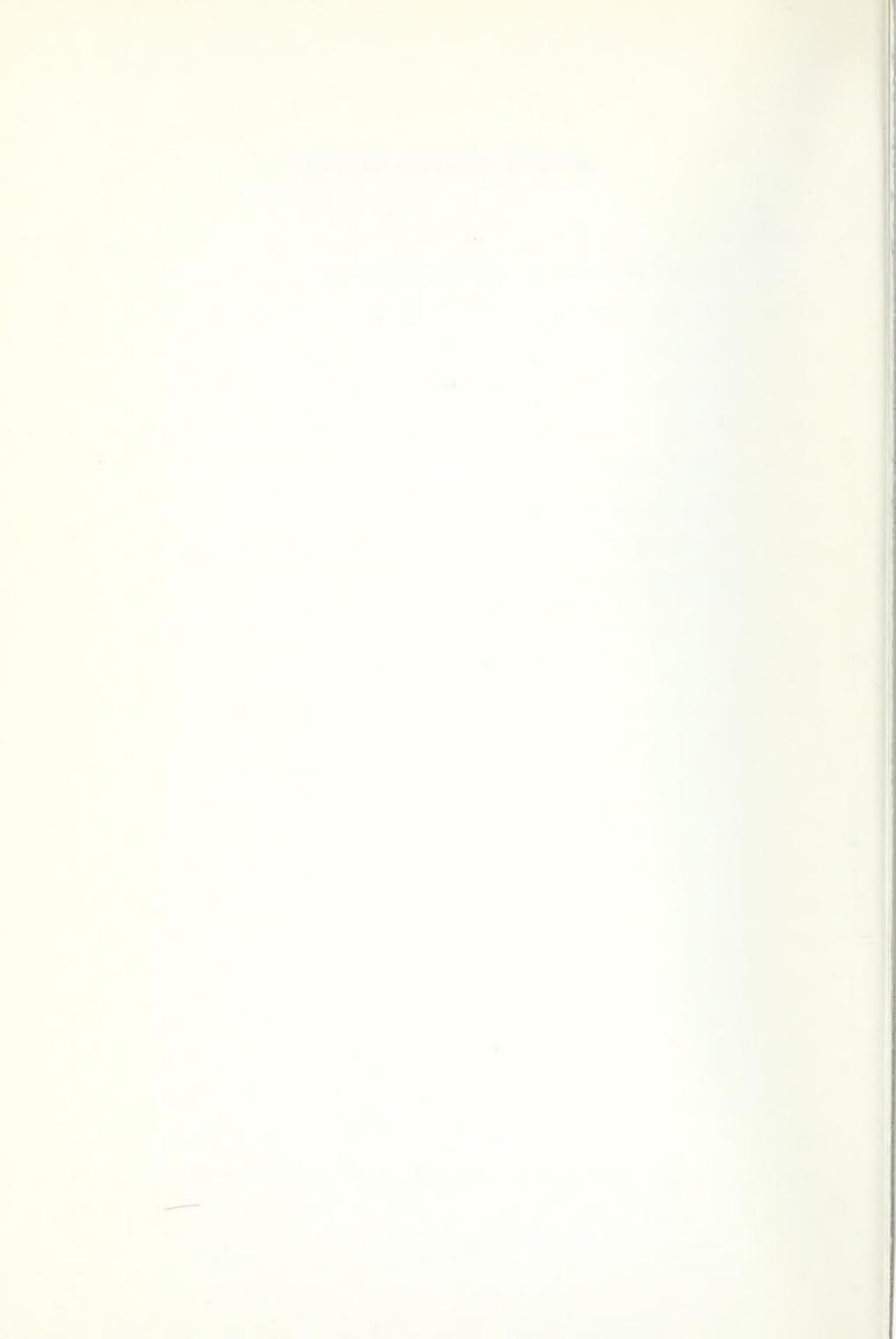
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VOLUME V GAGE COMPUTER PRINTOUT

This volume contains the complete gage data computer printout for the MBTA Green Line (Riverside Line) tests run in December, 1972. Examples of this data were presented in Volume I of this report.

A map of the Green Line is shown in Figure 1, and the station distances are given in Figure 2.

As an aid to the reader, the Summary Sheet and Test and Data Sections of Volume I, Appendix C, are reprinted here.

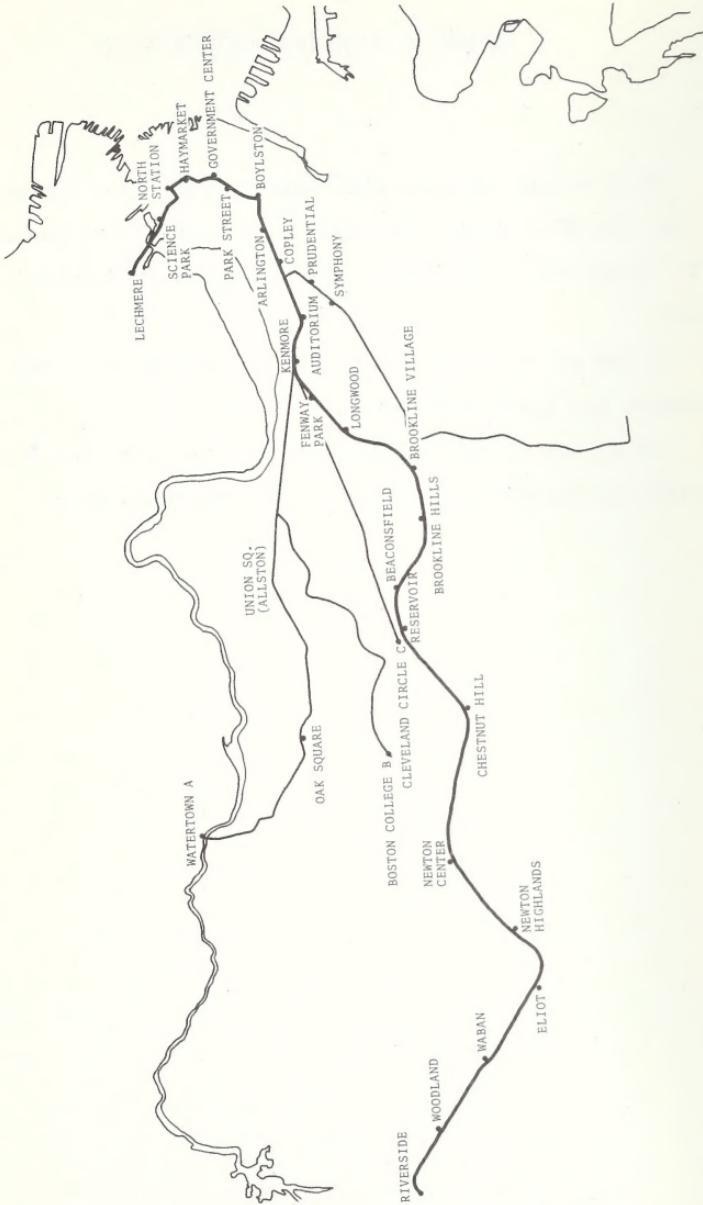
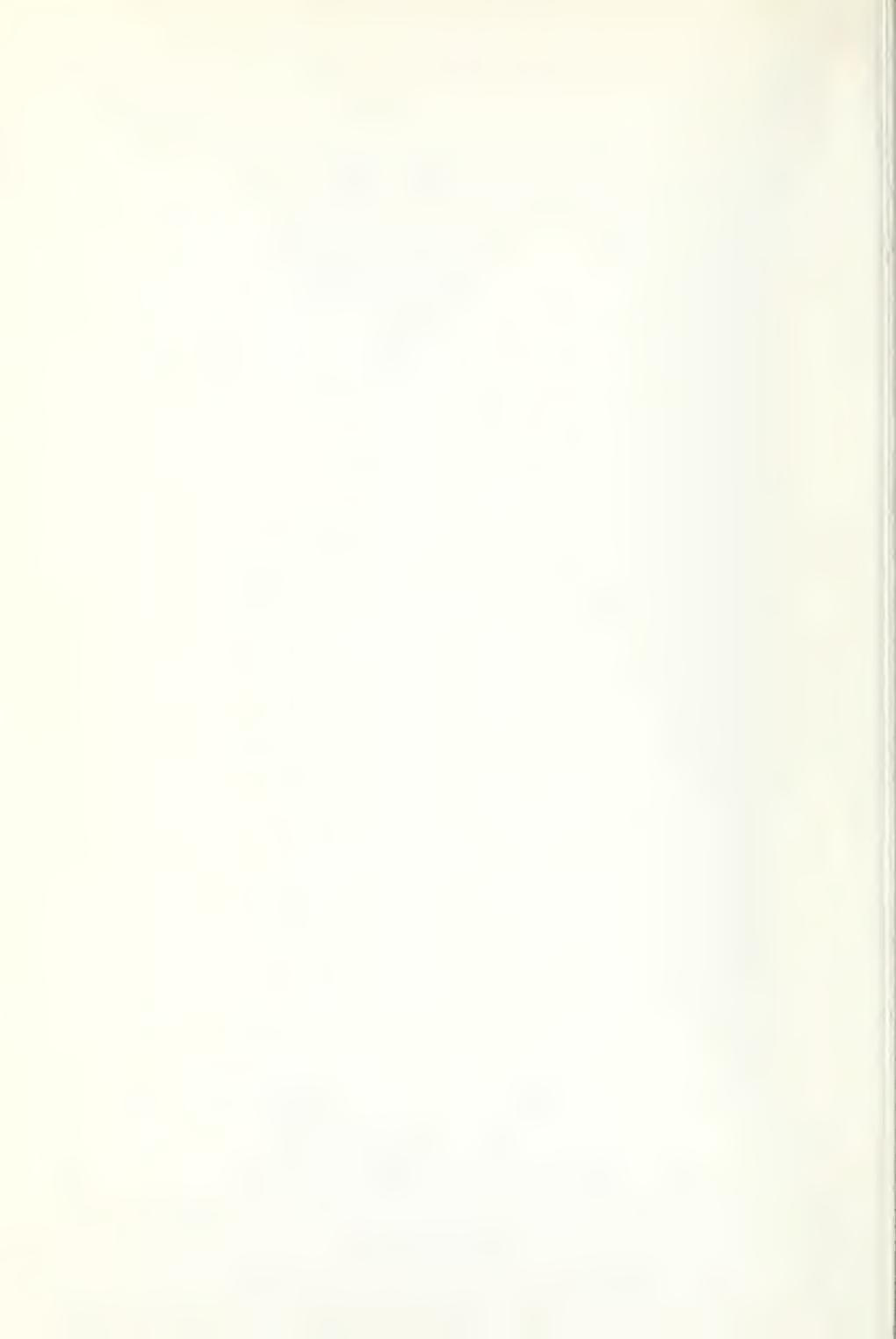


Figure 1 Map of MBTA Green Line

<u>Station</u>	<u>Distance From Last Station</u>	<u>Cumulative Distance</u>
Riverside	0	0
Woodland	2700	2700
Waban	4400	7100
Eliot	4600	11,700
Newton Highlands	4000	15,700
Newton Center	4300	20,000
Chestnut Hill	7700	27,700
Reservoir	5500	33,200
Beaconsfield	2300	35,500
Brookline Hills	4100	39,600
Brookline Village	2800	42,400
Longwood	3900	46,300
Fenway Park	2100	48,400
Kenmore	2900	51,300
Auditorium	2200	53,500
Copley	2600	56,100
Arlington	2000	58,100
Boylston	2100	60,200
Park Street	1200	61,400
Government Center	1500	62,900
Haymarket	1100	64,000
North Station	1800	65,800
Science Park	2100	67,900
Lechmere	3100	71,000

Figure 2 Station Distances



MBTA Green Line Tests, Riverside Branch

December, 1972

SEQUENCE NO. 12-72-602

PROCEDURE NO. PCC-TGC-6008-MBTA

OBJECTIVE:

To measure track gage on the Riverside Branch of the Green Line, prior to initiation of track rehabilitation. These data will help establish which sections of track most severely require rework. It will also be used to classify track according to gage specifications in the IRT Safety Guidelines for Urban Rapid Transit Systems. These results will subsequently be compared with data collected after rehabilitation.

STATUS:

Gage data has been collected and processed for the Riverside Branch Track. The twenty-six-plus miles of track is presented in forty six sections of data in the form of gage computer printout summaries.

Manual measurement of the gage to verify the automatically measured gage has revealed that the gage changes significantly in some places due to the vehicle loading. Further measurements may be made to provide improved understanding of the dynamic effects of vehicle loading on the gage data.



Test Description

In this test series, track gage is measured continuously using capacitive proximity detectors. The probes are located alongside the rails, one along each rail. The electronic circuit associated with each probe outputs a voltage proportional to the distance between the probe and the rail. By adding the two voltages, a sum voltage is obtained that is proportional to the difference between actual track gage and some known value of distance. The gage measuring system on this test put out zero volts for a track gage of 57 1/4 inches. This number is reached by measuring the distance between probe faces, 55 7/8 inches, and then adjusting the probe electronics so that an adequate displacement range is covered when the probes are mounted in the shadow of the wheel flange. Thus, each probe electronic system was set to operate at a sensitivity of 10 volts/inch and to put out zero volts when the probe face was 11/16 inch from the rail gage point.

Data

The gage data was recorded on analog tape in the form of capacitance probe circuit outputs, similar to the profile data. This analog data is presented in Volume II. The statistical print-out for the gage data is presented in the tabulated computer outputs on pages A, B and C of Figure groups in this volume. The levels used for these outputs are summarized below along with the corresponding IRT track classification:

Institute for Rapid Transit

<u>Zone</u>	<u>Gage G</u>	<u>Track Classification</u>
6	$G \geq 57 \frac{3}{4}$ in	Unclassified
4	$57 \frac{1}{4}$ in \leq	Class 1 or 2
2	57 in \leq	Class 3
0	$56 \frac{1}{4}$ in $<$	Class 4
1	56 in $<$	Class 4
3	$G \leq 56$ in	Unclassified

Page C of the figure provides a quick indication of the track classification relative to the IRT requirements for gage. Page B gives the location and magnitude of occurrences in Zones 1, 3, 4 and 6. Page A shows the location that the gage changes from one zone to another.

The page C gage printouts for all 46 sections are summarized in Figure 3. The IRT class of each section is given based on a literal interpretation of the data. The section of track from Waban Station to Eliot Station is Class 3. Twenty-two sections are Class 2. The remaining 23 sections are below standard because of one or more places where the gage exceeds $57 \frac{3}{4}$ inches or is less than 56 inches. However, of these sections, eleven have only one recorded defect. Many of the recorded defects occur in a region where extraneous metal such as guard rails may be affecting the recorded signal. A visual check of the track at these points is required to provide the final conclusion. The percentage of

trackage that satisfies gage requirements provides a better measure of track quality. The percentage of the track in each section that meets the gage requirements for IRT Classes 2, 3 and 4 is also shown in Figure 3.

Percentage of Track
Meeting Gage Requirements

	Track Section	IRT Class	4	IRT Class	3	IRT Class	2
1.	Riverside to Woodland	-	99.92	99.98	99.98		
2.	Woodland to Waban	-	99.13	99.99	99.99		
3.	Waban to Eliot	3	99.36	100			
4.	Eliot to Newton Highlands	2	94.94	99.95	100		
5.	Newton Highlands to Newton Ctr.	2	95.24	99.60	100		
6.	Newton Center to Chestnut Hill	2	92.47	99.57	100		
7.	Chestnut Hill to Reservoir	-	92.20	98.76	99.94		
8.	Reservoir to Beaconsfield	2	78.53	95.37	100		
9.	Beaconsfield to Brookline Hills	2	92.53	99.26	100		
10.	Brookline Hills to Brookline Vil.	2	94.37	99.52	100		
11.	Brookline Vil. to Longwood	2	95.98	99.73	100		
12.	Longwood to Fenway	2	95.92	99.51	100		
13.	Fenway to Kenmore	-	92.24	97.18	99.99		
14.	Kenmore to Auditorium	-	75.30	89.75	99.98		
15.	Auditorium to Copley	-	91.31	99.40	99.97		

Figure 3 Green Line Track Gage Summary

Track Section	Percentage of Track Meeting Gage Requirements		
	IRT Class 2	IRT Class 3	IRT Class 4
16. Copley to Arlington	-	99.26	99.96
17. Arlington to Boylston	-	93.48	99.31
18. Boylston to Park St.	-	83.46	99.07
19. Park St to Govt. Ctr.	2	85.62	98.46
20. Govt. Ctr. to Haymarket	2	97.64	99.71
21. Haymarket to No. Station	-	93.21	99.65
22. No. Station to Science Park	-	92.27	99.48
23. Science Park to Lechmere	-	95.06	99.95
24. Lechmere to Science Park	-	56.67	82.95
25. Science Park to No. Station	-	61.68	85.67
26. No. Station to Haymarket	-	59.21	82.66
27. Haymarket to Govt. Ctr.	-	52.39	78.69
28. Govt. Ctr. to Park St.	-	48.54	78.37
29. Park St. to Boylston	-	67.47	89.27
30. Boylston to Arlington	-	79.83	96.15
			99.82

Figure 3 Green Line Track Gage Summary (cont'd)

Percentage of Track
Meeting Gage Requirements

	Track Section	IRT Class	IRT Class	IRT Class
		2	3	4
31.	Arlington to Copley	2	92.08	99.4
32.	Copley to Auditorium	2	91.67	97.48
33.	Auditorium to Kenmore	-	81.94	94.02
34.	Kenmore to Fenway	-	98.88	99.74
35.	Fenway to Longwood	-	98.49	99.90
36.	Longwood to Brookline Vil.	2	93.00	98.92
37.	Brookline Vil. to Brookline Hills	2	88.70	98.32
38.	Brookline Hills to Beaconsfield	2	88.12	98.06
39.	Beaconsfield to Reservoir	2	94.70	99.95
40.	Reservoir to Chestnut Hill	2	92.07	98.52
41.	Chestnut Hill to Newton Ctr.	2	94.19	99.20
42.	Newton Ctr. to Newton Highlands	2	97.75	99.94
43.	Newton Highlands to Eliot	2	95.78	99.83
44.	Eliot to Waban	2	99.49	99.98
45.	Waban to Woodland	2	99.42	99.98
46.	Woodland to Riverside	-	82.87	83.07

Figure 3 Green Line Track Gage Summary (cont'd)

FROM - RIVERSIDE
TO - WOODLAND
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
369.5	0	374.0	1	449.0	0	451.0	1
1129.0	1	1142.5	0	1144.0	1	1495.5	0
1510.5	0	1511.0	1	1512.0	0	1514.5	1
1563.0	1	1580.0	0	1583.5	1	2037.0	0
2039.0	0	2040.0	2	2255.0	0	2265.5	2
2645.5	1	2646.0	0	2648.0	1	2650.5	0
2725.0	0	2731.0	1	2731.0	0	2731.5	1

Figure 4 Riverside to Woodland Data

FROM - RIVERSIDE TO - WOODLAND GAGE				FEET ZONE MAX MAGNITUDE FEET ZONE MAX MAGNITUDE				
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
374.0	1	56.217	451.0	1	56.233	1129.0	1	56.349
1144.0	1	56.245	1498.5	1	56.223	1511.0	1	56.351
1512.5	1	56.247	1563.0	1	56.241	1583.5	1	56.348
2649.5	1	56.249	2648.0	1	56.244	2651.5	1	56.247
2731.0	1	56.228	2751.5	6	58.040			

Figure 4 Riverside to Woodland Data (cont'd)

FROM - RIVERSIDE
TO - WOODLAND
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.02	1	0.5
4	57.75	57.25	0.00	0	0.0
2	57.25	57.00	0.07	3	2.0
0	57.00	56.25	99.07	17	2972.0
1	56.25	56.00	0.85	13	25.5
3	56.00	-49.00	0.00	0	0.0

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.98
0+1+2	3	56.00	57.25	99.98
0+1	4	56.00	57.00	16.57
6+3	BELOW STRIPED	56.00	57.75	0.00

Figure 4 Riverside to Woodland Data (cont'd)

Figure 5 Woodland to Waban Data

FROM - WOODLAND TO - WABAN GAGE				PAGE A 1			
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
599.0	0	603.0	1	605.0	0	605.5	1
688.5	1	705.5	0	716.0	5	1048.0	0
2093.0	0	2099.0	1	2815.5	0	2895.0	1
2995.5	1	3655.0	0	3650.0	1	3788.5	0
4001.0	0	4029.0	2	5219.5	0	5280.5	2
5295.0	2	5297.5	0	5305.0	2	5328.0	0
5338.0	0	5339.0	2				

Figure 5 Woodland to Waban Data (cont'd)

FROM - WOODLAND TO - WABAN GAGE						PAGE B 1		
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
603.0	1	56.239	606.5	1	56.243	686.5	1	56.220
706.0	6	57.753	1047.5	1	56.235	2059.0	1	56.221
2896.0	1	56.245	2995.5	1	56.239	3650.0	1	56.224
3792.0	1	56.231						

		FROM - WOODLAND			TO - WABAN		
		GATE			GATE		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.		
6	99.00	57.75	0.01	1	0.5		
4	57.75	57.25	0.00	0	0.0		
2	57.25	57.00	0.86	6	46.5		
8	57.00	56.25	98.56	16	5322.0		
1	56.25	56.00	0.57	9	31.0		
3	56.00	-99.00	0.00	0	0.0		

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.39
0+1+2	3	56.00	57.25	99.39
0+1	4	56.00	57.00	99.13
6+5	BELOW STNTP	56.00	57.75	0.01

Figure 5 Woodland to Waban Data (cont'd)

Figure 6 Waban to Elliot Data

FROM - WABAN TO - ELLIOT GAUGE				PAGE A 1			
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
840.5	0	841.0	2	854.5	0	855.5	2
863.5	2	888.5	0	896.5	2	1380.0	0
2557.0	0	2557.5	2	3003.5	0	3007.5	2
3130.5	2	3945.0	0	3946.5	1	4721.5	0
5013.0	0	5013.5	2			4734.0	1

Figure 6 Waban to Eliot Data (cont'd)

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
3946.5	1	56.233	4734.0	1	56.213			

FROM - WABAN
TO - ELIOT
GAGE

PAGE B 1

FROM - WABAN		TO - ELLIOT		GAGE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.00	0	0.0
2	57.25	57.00	0.64	9	34.5
0	57.00	56.25	93.29	11	5361.5
1	56.25	56.00	0.07	2	4.0
3	56.00	-33.00	0.00	0	0.0

ZONE	IRT CLASS	TIGHT	MINE	% OF TOTAL
0+1+2+4	1+2	56.00	51.75	140.00
0+1+2	3	56.00	50.25	140.00
0+1	4	56.00	50.00	99.35
5+7	BELOW STIPLED	56.00	51.75	0.00

Figure 6 Waban to Elliot Data (cont'd)

FROM - ELIOT
TO - NEWTON HIGHLANDS
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
984.5	0	985.0	2	1796.0	0	1798.0	2
1803.0	2	1885.0	0	1888.5	2	1889.0	0
1898.5	0	1980.0	2	1981.0	0	1981.5	2
1928.0	2	1938.5	0	1939.5	2	1957.5	0
1984.5	0	1996.0	2	2046.0	0	2065.0	2
2072.0	2	2073.0	0	2073.5	2	2128.0	0
2162.5	0	2163.5	2	2184.5	0	2194.0	2
2282.5	2	2283.5	0	2308.0	2	2311.5	0
2343.5	0	2348.0	2	2378.5	0	2385.0	2
2405.0	2	2486.5	0	2487.0	2	2487.5	0
2450.5	0	2454.5	2	2456.0	0	2456.5	2
2483.5	2	2561.5	0	2562.0	2	2599.5	0
2629.0	0	2630.0	2	2644.5	0	2651.0	2
2666.0	2	2704.0	0	2712.5	2	2721.0	0
2790.5	0	2791.0	2	2791.5	0	2794.0	2
2828.5	2	2849.5	0	2851.0	2	2851.5	0
2967.0	0	2981.0	2	3046.5	0	3061.0	2
3178.0	2	3204.0	0	3208.5	2	3271.0	0
3275.5	4	3281.0	2	3293.0	0	3296.5	2
3297.0	2	3304.0	0	3308.5	2	3301.0	2
3319.5	0	3324.0	2	3335.0	0	3337.5	2
3345.0	2	3381.0	0	3381.5	2	3382.5	0
3461.0	0	3462.0	2	3472.5	0	3481.5	2
4348.5	2	4911.5	0	4919.0	2	5190.0	0
5247.5	0	5151.5	2	5345.5	0	5345.0	2

Figure 7 Eliot to Newton Highlands Data

FROM - ELIOT
 TO - NEWTON HIGHLANDS
 GAGE
 FEET ZONE MAX MAGNITUDE FEET ZONE MAX MAGNITUDE
 1799.0 4 57.270 3275.5 4 57.277 3296.0 4 57.263

PAGE B 1

Figure 7 Eliot to Newton Highlands Data (cont'd)

PAGE C 1

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.	
					FT	% OF TOTAL
6	99.00	57.75	0.00	0	0.0	0.0
4	57.75	57.25	0.05	3	2.5	2.5
2	57.25	57.00	5.02	62	271.0	271.0
0	57.00	56.25	94.94	59	5126.5	5126.5
1	56.25	56.00	0.00	0	0.0	0.0
3	56.00	-33.00	0.00	0	0.0	0.0

ZONE	IR	TIGHT	LINE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	2	56.00	57.75	25.95
0+1	4	56.00	57.00	94.94
6+3	8	56.00	57.75	0.00

Figure 7 Eliot to Newton Highlands Data (cont'd)

Figure 8 Newton Highlands to Newton Center Data

FROM - NEWTON HIGHLANDS				TO - NEWTON CENTER			
				GAGE			
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
46.5	0	48.5	1	453.0	0	455.0	2
739.5	2	763.5	0	767.5	2	939.5	0
955.5	0	978.5	2	1009.5	0	1011.5	2
1020.5	2	1035.5	4	1053.5	2	1055.0	0
1578.0	0	1577.0	2	1787.0	0	1787.5	2
2931.5	4	2933.5	0	2927.0	1	3015.5	0
3017.0	0	3018.0	1	3018.0	0	3020.5	1
3571.5	2	4115.5	0	4195.5	2	4197.5	0
4531.5	0	4550.5	2	4588.5	0	4590.5	2
4609.0	0	4620.0	0	4638.0	2	4689.0	0
5112.5	0	5112.5	2	5171.0	4	5185.5	0
5231.5	0	5231.5	2	5231.5	0	5241.5	4
5235.5	0	5235.5	2	5235.5	0	5237.0	2
5237.0	0	5237.0	2	5237.0	0	5237.0	2

Figure 8 Newton Highlands to Newton Center Data (cont'd)

FROM - NEWTON HIGHLANDS		TO - NEWTON CENTER		GAGE		FEET		ZONE		MAX MAGNITUDE		FEET		ZONE		MAX MAGNITUDE							
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE						
48.5	1	56.236	1005.5	4	57.302	2901.5	1	56.244	2927.0	1	56.223	3016.0	1	56.244	3020.5	1	56.194	5171.0	4	57.394	5241.5	4	57.411

FROM - NEWTON HIGHLANDS
TO - NEWTON CENTER
FHGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.40	3	21.5
2	57.25	57.00	4.36	27	235.5
0	57.00	56.25	95.00	30	5130.0
1	56.25	56.00	0.24	6	13.0
3	56.00	-39.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.60
0+1	4	56.00	57.00	95.24
6+3	BELOW STRIPED	56.00	57.75	1.01

Figure 8 Newton Highlands to Newton Center Data (cont'd)



FROM - NEWTON CENTER
TO - CHESTNUT HILL
GAZE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
330.0	0	344.0	2	363.5	0	367.0	2
920.0	2	928.5	4	948.5	2	957.5	0
1000.0	4	1016.5	2	1018.0	0	1028.0	2
1045.0	2	1085.5	0	1136.5	2	1157.5	0
1167.0	2	1170.0	2	1310.5	0	1313.5	2
1354.5	2	1361.0	4	1365.5	2	1370.0	0
1895.5	0	1897.5	2	2401.0	0	2405.5	2
2412.0	2	2420.5	0	2424.0	2	2441.5	0
2464.0	0	2482.5	2	2484.5	4	2487.0	2
2482.0	2	2492.5	4	2503.0	0	2504.5	2
2507.5	0	2510.5	2	2668.0	0	2671.5	2
2704.0	2	2707.5	0	2715.0	2	2832.0	0
2948.5	0	2949.0	2	3957.0	0	3958.0	2
3350.0	2	4022.5	0	4034.0	2	4053.0	0
4097.0	4	4061.0	2	4113.0	0	4120.0	2
4128.0	2	4145.0	0	4317.0	2	4319.0	0
4147.0	0	4445.5	2	4584.0	0	4882.5	2
4776.5	2	6558.0	0	6582.5	2	6917.0	0
7096.5	0	7097.0	2	7191.5	0	7192.5	2
7186.0	2	7521.0	0	7914.5	2	7932.0	0
7187.0	0	7701.0	2	7914.5	0	7970.0	2
7730.0	2	7740.0	0	7818.0	2	7828.5	0
7750.0	0	7760.0	2	7849.0	4	7859.0	2
7790.0	2	7795.0	0	7852.0	2	7859.0	0
7795.0	0	7810.0	2	7949.0	0	7952.0	2
7795.0	2	7815.0	0	7949.0	2	7962.0	2
7931.0	0	7946.0	2	7950.0	2	7953.0	0
8044.0	0	8061.0	2	8068.0	0	8069.0	2
8073.0	2	8074.0	0	8080.0	2	8087.5	0
8139.0	2	8141.0	0	8155.0	0	8162.0	2

Figure 9 Newton Center to Chestnut Hill Data

Figure 9 Newton Center to Chestnut Hill Data (cont'd)

FROM - NEWTON CENTER TO - CHESTNUT HILL GAGE		FEET		ZONE		FEET		ZONE		FEET		ZONE	
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
8165.0	2	8172.0	0	8177.0	2	8213.0	0	8213.5	2	8242.5	0	8249.0	2
8214.5	0	8221.0	2	8224.5	0	8225.0	2	8248.0	4	8249.0	2	8267.5	2
8246.0	2	8246.5	4	8247.0	2	8248.0	4	8267.0	0	8267.5	2	8374.0	0
8250.5	0	8251.0	4	8252.5	2	8257.0	0	8373.0	2	8399.0	2	8399.0	2
8258.0	0	8277.5	2	8307.0	0	8382.5	2	8393.5	4	8492.5	0	8492.5	0
8375.5	2	8376.0	0	8382.5	2	8401.0	0	8654.0	0	8660.0	2		
8463.0	0	8468.5	2	8649.5	0	8782.0	2						
8512.0	2	8751.5	0										

Figure 9 Newton Center to Chestnut Hill Data (cont'd)

FROM - NEWTON CENTER TO - CHESTNUT HILL GAUGE				FEET ZONE MAX MAGNITUDE FEET ZONE MAX MAGNITUDE				
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
928.5	4	57.397	1000.0	4	57.425	1361.0	4	57.400
2406.0	4	57.259	2471.5	4	57.275	2481.5	4	57.358
2482.5	4	57.263	4057.0	4	57.301	7859.0	4	57.253
7574.0	4	57.433	8246.5	4	57.271	8248.0	4	57.307
8251.0	4	57.274	8393.5	4	57.262			

		FROM - NEWTON CENTER			TO - CHESTNUT HILL		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.	GAGE	
6	99.00	57.75	0.00	0	0.0	/	
4	57.75	57.25	0.43	14	38.0		
2	57.25	57.00	7.10	93	625.0		
0	57.00	56.25	92.47	80	8137.0		
1	56.25	56.00	0.00	0	0.0		
3	56.00	-99.00	0.00	0	0.0		

ZONE	IRI CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.57
0+1	4	56.00	57.00	92.47
6+3	BELOW STNDP	56.00	57.75	0.00

Figure 9 Newton Center to Chestnut Hill Data (cont'd)

FROM - CHESTNUT HILL
TO - RESERVOIR
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
23.5	0	35.0	2	36.0	0	38.0	2
45.0	2	46.0	4	48.0	2	49.0	0
50.5	0	52.5	2	53.0	0	141.0	2
150.5	2	181.0	0	185.0	2	213.0	0
228.5	0	231.0	2	231.5	0	232.0	2
249.5	2	287.5	0	292.0	2	316.5	0
323.5	0	324.0	4	329.5	2	347.0	0
347.5	0	350.5	2	358.5	0	442.0	2
452.5	2	455.0	0	469.5	2	536.5	0
568.0	0	584.0	2	722.5	0	725.0	2
728.5	2	730.0	0	730.5	2	829.5	0
839.0	0	854.0	2	875.0	0	99.5	0
1013.5	2	1014.5	0	1017.0	2	1065.5	0
1178.5	0	1181.5	2	1237.5	0	1241.0	2
1248.0	2	1371.0	0	1389.5	2	1408.0	0
1597.0	0	1598.5	1	1651.0	0	1632.5	1
1976.5	2	5123.5	0	5124.0	2	5214.5	0
5222.0	0	5224.5	2	5611.0	0	5265.5	0
5293.0	2	5295.0	0	5717.0	2	5291.0	0
5338.0	0	5339.5	2	5374.5	0	5391.5	0
5421.5	2	5461.5	0	5467.5	2	5572.5	0
5556.0	0	5561.5	2	5565.0	0	5574.5	0
5603.5	2	5642.5	0	5644.0	2	5671.5	0
5904.0	0	5940.5	2	5945.0	0	5945.5	0
5940.0	2	5946.5	0	5950.0	2	5957.0	0
5967.5	2	5981.5	0	5987.5	2	6001.0	0
6009.5	4	6012.0	2	6016.0	4	6030.0	2
6032.5	4	6044.0	4	6047.0	2	6055.5	4

Figure 10 Chestnut Hill to Reservoir Data

Figure 10 Chestnut Hill to Reservoir Data (cont'd)

FROM - CHESTNUT HILL			TO - RESERVOIR			PAGE A 2		
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET
6059.5	0	6074.5	2	6088.0	4	6093.0	0	6109.5
6114.5	2	6183.0	0	6183.5	4	6184.5	2	6298.5
6229.0	4	6303.5	0	6304.0	2	6316.0	0	6318.5
6317.0	2	6317.5	0	6318.0	1	6322.0	0	6327.0
6359.5	0	6359.0	2	6359.5	0	6359.0	1	6353.0
6359.0	2	6340.5	0	6341.5	1	6342.5	0	6343.0
6356.0	0	6356.5	2	6351.0	0	6351.5	2	6948.0
6991.5	1	6996.5	0	6998.5	1	7020.5	0	7024.0
7024.5	4	7032.5	2	7041.0	4	7046.0	2	7048.0
7054.0	2	7055.0	4	7055.5	2	7055.5	4	7057.0
7063.5	4	7064.0	2	7065.5	4	7066.5	0	7069.0
7103.5	0	7104.0	2	7105.0	0	7107.0	2	7157.5
7166.5	2	7167.5	0	7168.5	2	7170.0	0	7172.5
7173.5	0	7189.0	2	7189.5	0	7190.0	2	7191.0
7198.5	2							

FROM - CHESTNUT HILL
TO - RESERVOIR
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
46.0	4	57.366	49.5	1	56.341	724.0	4	57.344
1241.5	4	57.252	1593.5	1	56.244	1633.5	1	56.237
5915.5	4	57.505	5935.5	4	57.238	5985.5	4	57.234
5966.0	4	57.479	6007.5	4	57.165	6012.5	5	57.165
6088.0	4	57.497	6163.5	4	57.295	6269.0	4	57.273
6316.5	1	56.116	6318.0	1	56.157	6331.0	1	56.154
6341.5	1	56.154	6347.0	1	56.112	6395.5	1	56.158
6398.5	1	56.154	7002.5	4	57.257	7011.0	4	57.406
7055.0	4	57.317	7055.5	4	57.274	7055.5	4	57.271

Figure 10 Chestnut Hill to Reservoir Data (cont'd)

		FROM - CHESTNUT HILL		TO - RESERVOIR		GAGE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.		
6	99.00	57.75	0.06	1	4.5		
4	57.75	57.5	1.18	19	85.0		
2	57.25	57.00	6.56	95	472.0		
0	57.00	56.25	92.02	91	6625.5		
1	56.25	56.00	0.18	10	13.0		
3	56.00	-29.00	0.70	n	n.n		

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.94
0+1+2	3	56.00	57.25	98.16
0+1	4	56.00	57.00	72.31
6+3	BELOW STNDRD	56.00	57.75	0.06

Figure 10 Chestnut Hill to Reservoir Data (cont'd)

FROM - RESERVOIR
TO - BEACONSFIELD
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
14.0	0	19.5	2	24.5	0	27.5	2
32.5	2	53.5	0	61.0	2	100.5	0
356.0	0	357.0	2	357.5	0	358.5	2
359.5	2	361.5	0	363.0	2	372.5	4
393.5	4	400.5	2	401.0	0	402.0	2
403.5	2	404.0	0	412.0	2	412.5	4
423.5	4	424.5	2	439.5	0	440.0	2
444.5	2	445.0	0	457.5	2	465.5	4
477.5	0	479.5	2	485.0	4	490.0	6
504.0	2	523.5	0	526.0	2	526.5	0
545.0	4	550.5	2	566.5	0	571.5	2
640.5	2	641.0	4	641.5	2	755.5	0
760.5	0	761.5	2	773.0	0	773.5	1
774.5	2	775.0	1	779.5	0	784.5	2
787.0	2	787.5	0	788.0	1	790.0	0
798.0	0	799.0	1	799.5	0	800.0	1
1398.5	2	1405.0	0	1408.5	1	1443.5	0
1461.0	0	1461.5	2	1478.0	0	1480.5	1
1489.5	2	1498.0	4	1500.0	2	1500.5	4
1505.0	0	1511.0	2	1512.0	4	1513.0	4
1520.0	2	1522.5	4	1535.0	0	1546.0	4
1561.5	2	1563.5	0	1565.5	2	1614.5	0
1624.5	0	1626.5	2	1637.0	0	1627.5	2
1629.0	2	1630.5	0	1636.0	2	1646.5	0
1648.0	0	1655.5	2	1659.0	0	1690.0	0
1704.5	2	1705.0	0	1707.0	2	1708.5	0
1710.5	0	1726.5	2	1730.0	0	1735.5	2
1737.5	2	1738.5	0	1740.5	2	1745.0	2
1753.0	0	1758.0	2	1772.0	0	1775.5	2

Figure 11. Reservoir to Beaconsfield Data

FROM - RESERVOIR TO - BEACONSFIELD GAGE				FEET			
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1808.0	2	1818.5	4	1824.0	2	1901.5	0
1809.0	4	1918.5	2	1938.0	0	1942.5	2
1952.5	2	2001.0	0	2003.5	2	2004.5	4
2039.0	0	2046.0	2	2082.0	0	2083.0	2
2106.5	2	2107.0	4	2110.5	0	2112.0	0
2133.0	4	2144.5	2	2155.0	0	2164.5	2
2139.5	2	2250.0	4	2352.5	0	2271.0	0
2378.0	0	2391.5	2	2481.5	0	2487.5	2
2493.0	2	2493.5	4	2494.0	0	2498.0	4
2600.5	0	2606.5	2	2655.0	0	2676.5	2
2663.0	2	2700.0	0	2711.0	0	2719.5	0
2770.5	0	2771.5	2	2793.5	0	2795.0	2
2824.0	0	2838.0	0	2867.5	0	2907.5	0
2926.0	4	2938.0	2	3031.0	0	3037.5	2
3056.0	0						

Figure 11 Reservoir to Beaconsfield Data (cont'd)

FROM - RESERVOIR
TO - BEACONSFIELD
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
572.5	4	57.506	236.5	4	57.551	412.5	4	57.497
423.5	4	57.486	466.5	4	57.670	370.0	3	57.517
545.0	4	57.493	541.0	4	57.282	37.0	1	57.513
775.0	1	56.236	38.0	1	56.240	5.0	1	56.143
290.0	1	57.241	125.0	5	57.550	1.0	5	57.550
1481.5	4	57.258	110.0	5	57.550	1.0	5	57.550
1512.0	4	57.243	150.0	5	57.550	1.0	5	57.550
1673.0	4	57.243	170.0	5	57.550	1.0	5	57.550
1818.5	1	57.257	150.0	1	57.550	1.0	5	57.550
2004.5	4	57.304	210.0	1	57.550	1.0	5	57.550
2296.0	4	57.465	24.0	5	57.550	1.0	5	57.550
2926.0	4	57.416	7447.0	4	57.550	1.0	5	57.550

Figure 11 Reservoir to Beaconsfield Data (cont'd)

FROM = RESERVOIR
TO = BEACONSFIELD
GAGE 1

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	HQ. OCCUPANCIES	TOTAL FT.
6	59.00	57.75	0.16	1	5.0
4	57.75	57.25	4.47	28	143.0
2	57.25	57.00	16.84	99	539.0
0	57.00	56.25	78.25	80	2504.0
1	56.25	56.00	81.28	8	9.0
3	56.00	-	9.00	1	5.0

ZONE(S)	TOP CLASS	THICK	WHITE	LT TO TL
0+1+2+4	1+2	56.00	57.75	99.94
0+1+2	3	56.00	57.25	95.77
0+1	4	56.00	57.00	78.73
6+3	BELOW STD(PD)	56.00	57.75	91.16

Figure 11 Reservoir to Beaconsfield Data (cont'd)

FROM - BEACONSFIELD
TO - BROOKLINE HILLS
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
18.5	0	21.0	4	22.0	4	25.0	2
63.5	2	99.5	2	100.5	2	111.0	0
139.5	0	146.5	2	150.5	4	162.0	2
182.0	2	253.0	0	257.5	2	268.0	4
292.0	0	304.0	2	306.5	0	409.5	2
506.0	2	506.5	0	511.5	2	514.0	4
516.5	4	521.5	2	619.5	0	625.0	2
645.0	2	675.5	0	681.5	2	718.0	0
738.0	0	769.0	2	789.0	0	790.0	2
813.5	2	835.5	0	842.5	2	856.5	0
926.5	0	934.5	2	945.0	4	956.5	2
1056.0	2	1061.5	4	1075.0	2	2538.5	0
252.0	0	2542.5	2	2616.0	0	2617.5	2
2622.0	2	2893.0	0	2942.0	1	3957.5	0
292.0	0	297.5	2	3359.5	0	3763.5	2
3895.5	2	4822.5	0	4853.0	2	4854.0	0
4834.0	0	4894.5	2	4956.5	0	4997.5	2
5038.0	2	5038.5	4	5042.0	0	5044.5	0
5047.5	0	5061.5	2	5073.5	0	5083.0	2
5108.0	2	5111.0	0	5114.0	2	5142.5	0
5181.0	0	5185.0	2	5185.5	0	5188.0	2
5199.5	2	5200.0	0	5204.0	2	5258.0	0
5301.0	0	5308.0	2	5314.5	0	5315.5	2
5320.0	2					5318.0	0

Figure 12 Beaconsfield to Brookline Hills Data

FROM - BEACONSFIELD TO - BROOKLINE HILLS						PAGE B 1		
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
22.0	4	57.300	150.5	4	57.288	268.0	4	57.459
514.0	4	57.257	516.5	4	57.289	945.0	4	57.424
1061.5	4	57.307	2620.0	4	57.469	2902.0	1	56.221
5038.0	4	57.268						

Figure 12 Beaconsfield to Brookline Hills Data (cont'd)

FROM - BEACONSFIELD
 TO - BROOKLINE HILLS
 GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.74	9	40.8
2	57.25	57.00	6.73	57	363.5
0	57.00	56.25	92.47	49	4993.5
1	56.25	56.00	0.06	1	3.0
3	56.00	-99.00	0.00	0	0.0

ZONES	TRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.26
0+1	4	56.00	57.00	92.53
6+3	BELOW STNDRD	56.00	57.75	0.00

Figure 12 Beaconsfield to Brookline Hills Data (cont'd)

FROM - BROOKLINE HILLS
TO - BROOKLINE VILLAGE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
205.5	0	206.5	4	537.5	0	538.0	2
601.5	2	609.0	0	609.5	2	612.0	0
738.0	0	752.0	2	752.5	4	756.0	2
776.0	2	788.5	0	797.0	2	816.0	0
826.5	0	827.0	2	827.5	0	828.0	2
858.0	2	895.5	0	897.5	2	910.5	0
915.0	0	917.5	2	973.0	0	975.0	2
1016.0	2	1016.5	0	1018.0	2	1019.0	0
1033.0	0	1034.0	2	1235.0	0	1278.0	2
1280.0	2	1281.5	0	1284.5	2	1353.0	0
1374.0	0	1377.0	2	1377.5	4	1390.5	2
1391.5	2	1392.0	4	1408.5	2	1412.0	0
1495.5	4	1497.5	2	2387.0	0	2398.5	0
2292.5	2	2293.5	0	2305.5	0	2305.5	0
2412.0	0	2413.0	2	2614.5	0	2619.0	2
2938.5	2	2953.0	0	2953.5	1	2954.5	1
3343.5	0	3349.0	2	3320.5	0	3441.5	0
3442.5	2	3474.5	0	3477.5	0	3479.5	0
3480.0	0	3480.5	2	3500.0	0	3500.0	0
4085.0	2						

Figure 13 Brookline Hills to Brookline Village Data

Figure 13 Brookline Hills to Brookline Village Data (cont'd)

FROM - BROOKLINE HILLS TO - BROOKLINE VILLAGE GAUGE				PAGE B 1			
FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE
206.5	4	57.545	752.5	4	57.253	1377.5	4
1391.0	4	57.351	1392.0	4	57.252	1435.5	4
2953.5	1	56.247	2955.5	1	56.246	57.346	

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.	
					TIGHT	MEDIUM
6	99.00	57.75	0.08	0	0	0.0
4	57.75	57.25	0.48	6	20.0	
2	57.25	57.00	5.15	45	216.5	
0	57.00	56.25	94.33	43	3962.0	
1	56.25	56.00	0.04	2	1.5	
-	56.00	-39.00	0.00	0	0.0	
3	-39.00	-56.00	0.00	0	0.0	

ZONE	1PT CLASS	TIGHT	MEDIUM	WIDE
0+1+2+4	1+2	56.00	57.75	1.00
0+1+2	3	56.00	57.75	0.00
0+1	4	56.00	57.75	0.00
6+3	BELOW STTHD	56.00	57.75	0.00

Figure 13 Brookline Hills to Brookline Village Data (cont'd)

FROM - BROOKLINE VILLAGE
TO - LONGWOOD
GATE

PAGE A 1

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
363.5	0	368.5	2	442.5	0	452.0	2
497.0	2	498.0	0	499.0	2	594.5	0
1095.0	0	1107.5	2	1156.0	0	1762.5	2
1916.0	2	2470.5	0	2471.0	1	2959.0	0
2935.0	0	2938.0	1	2942.5	0	2944.5	1
2951.0	1	3250.0	0	3251.0	1	3301.0	0
3304.5	0	3305.0	1	3311.0	0	3317.0	1
3436.0	0	3456.0	0	3474.0	2	3545.0	0
3557.5	4	3561.0	0	3615.0	0	3653.5	1
3667.5	2	3698.0	0	3701.0	2	3702.5	4
3704.0	4	3709.0	2	3814.5	0	3818.0	2
3889.5	2	3956.0	0	3959.0	2	4057.0	0
4053.5	0	4072.5	2	4115.0	0	4201.0	2
4214.0	0	4214.0	2	4217.0	0	4219.0	2
4407.0	0	4407.5	2	4410.5	0	4411.5	2
4439.5	2	4450.5	0	4456.0	2	4486.0	0
4587.0	0						

Figure 14 Brookline Village to Longwood Data

Figure 14 Brookline Village to Longwood Data (cont'd)

FROM - BROOKLINE VILLAGE				PAGE B 1			
TO - LONGWOOD				GAGE			
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE
2471.0	1	56.218	280.5	1	56.240	2938.0	1
2944.5	1	56.239	2951.0	1	56.230	3251.0	1
3303.0	1	56.243	3305.0	1	56.245	3317.0	1
3557.5	4	57.357	3633.5	1	56.244	3703.5	4
3704.0	4	57.364				57.288	

PHASE C 1

FROM - BROOKLINE VILLAGE

TO - LONGWOOD

GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.27	3	12.5
2	57.25	57.00	3.75	30	172.5
0	57.00	56.25	95.54	38	4395.0
1	56.25	56.00	0.43	10	20.0
3	56.00	-99.00	0.00	0	0.0

ZONES	INT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	24.73
0+1	4	56.00	57.00	45.98
6+3	BELOW STANDARD	56.00	57.75	0.00

Figure 14 Brookline Village to Longwood Data (cont'd)

FROM - LONGWOOD
TO - FENWAY
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
143.5	0	144.0	1	176.0	0	177.0	0
178.0	1	224.0	0	224.5	1	227.5	0
230.5	0	231.5	1	237.5	0	243.5	1
267.0	1	362.0	0	363.0	2	393.0	0
472.0	0	474.5	2	484.5	4	487.5	2
530.5	1	585.5	0	594.5	2	625.0	0
629.0	4	629.5	2	631.0	4	635.5	2
629.0	0	797.0	0	816.5	0	882.5	0
784.5	2	984.5	2	985.0	0	999.0	2
983.5	0	1136.5	0	1140.0	1	1140.5	0
1128.0	2	1145.0	4	1148.0	1	1148.5	0
1144.5	0	1356.0	0	1353.0	3	1333.5	2
1337.5	2	1526.5	2	1365.5	0	1376.5	0
1511.0	0	1526.5	4	1233.5	0	1235.0	1
2788.5	1	3213.5	0	3215.5	1	3221.0	4
3668.5	0	3672.0	1	3779.5	0	3789.0	1

Figure 15 Longwood to Fenway Park Data

Figure 15 Longwood to Fenway Park Data (cont'd)

FROM - LONGWOOD TO - FENWAY GAZE						PAGE B 1		
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
144.0	1	56.247	177.0	1	56.211	178.0	1	56.249
224.5	1	56.245	230.0	1	56.235	231.5	1	56.243
243.5	1	56.191	263.0	1	56.247	484.5	4	57.357
530.5	1	56.242	629.0	4	57.304	631.0	4	57.267
2235.0	1	56.247	2788.5	1	56.211	3221.0	4	57.381
3672.0	1	56.106	3789.0	1	56.162			

FROM - LONGWOOD TO - FENWAY GAGE					
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.49	4	18.5
2	57.25	57.00	3.59	24	136.5
0	57.00	56.25	95.08	33	3613.0
1	56.25	56.00	0.84	13	52.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	33.51
0+1	4	56.00	57.00	35.35
6+3	BELOW STIMPL	56.00	57.75	2.00

Figure 15 Longwood to Fenway Park Data (cont'd)

FROM - FENWAY TO - KENMORE GAGE				FEET			
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
237.5	0	243.5	1	667.5	0	669.5	2
682.0	2	1123.5	0	1121.0	1	1234.0	0
1564.5	0	1566.5	2	1563.0	0	1570.5	2
1596.5	1	1635.5	0	1636.5	2	1637.5	0
1646.0	0	1646.5	2	1705.0	0	1710.5	2
1720.0	2	1741.5	0	1743.0	2	1744.5	0
1759.5	4	1760.0	6	1760.5	4	1762.5	2
1789.5	1	1790.0	0	1791.5	2	1795.5	4
1797.0	4	1798.5	0	1800.0	4	1804.5	0
1812.5	0	1813.0	2	1819.5	0	1823.5	2
1830.5	2	1841.5	0	1842.0	2	1843.5	0
2888.5	0	2890.0	1	2908.0	11	2941.5	7
2942.5	2	2957.5	11	2958.0	7	2969.0	9
2973.0	0	2983.5	2	2984.0	11	2984.5	9
3014.0	2	3041.5	0	3054.5	2	3055.5	0
3066.5	0	3096.0	2	3101.0	4	3118.0	2
3138.0	2	3327.5	0	3330.4	2	3347.0	0
3499.5	0	3500.0	2	3503.6	0	3504.0	0
3531.0	2						

Figure 16 Fenway Park to Kenmore Data

Figure 16 Fenway Park to Kenmore Data (cont'd)

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
247.5	1	56.207	675.5	4	56.371	1127.0	1	56.111
1244.0	1	56.155	1597.5	1	56.147	1760.0	6	56.051
1789.5	1	56.116	1797.5	1	56.139	1797.0	4	56.049
1809.0	4	56.591	1910.5	1	56.151	1925.0	4	56.051
3101.0	4	56.345	3151.5	1	56.166			

		FROM - FENWAY			TO - KENMORE		
					GAUGE		
ZONE		UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.	
6		99.00	57.75	8.01	1	0.5	
4		57.75	57.25	2.81	9	101.0	
2		57.25	57.00	4.94	37	178.0	
6		57.00	56.25	91.56	39	3296.0	
1		56.25	56.00	0.68	6	24.5	
3		56.00	-99.00	0.00	11	0.0	
ZONES	IRT CLASS	TIGHT	MIDDLE	WIDE	% OF TOTAL		
0+1+2+4	1+2	56.00	57.75	57.75	33.93		
0+1+2	3	56.00	57.25	57.25	37.16		
0+1	4	56.00	57.00	57.00	92.34		
6+3	BELOW STUPP	56.00	57.75	57.75	0.01		

Figure 16 Fenway Park to Kenmore Data (cont'd)



FROM - KENMORE
TO - AUDITORIUM
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
79.5	0	81.5	2	154.5	0	157.0	2
298.5	2	305.5	0	312.0	2	328.5	0
340.0	0	348.5	2	390.5	0	391.0	2
394.0	2	394.5	0	395.0	1	395.5	2
398.5	2	399.0	4	405.0	2	405.5	0
429.0	0	430.5	2	431.0	4	440.5	0
442.5	0	447.5	2	449.0	0	448.5	4
452.5	0	454.5	1	455.0	0	457.0	1
459.0	1	575.0	0	577.5	2	578.0	4
583.0	0	583.5	4	595.0	2	585.5	4
589.5	2	591.0	4	603.0	0	606.0	2
623.5	6	625.5	4	623.5	2	652.0	0
692.5	0	693.0	0	694.0	2	705.0	4
789.5	4	736.0	2	737.0	4	737.5	2
771.0	2	867.5	4	868.5	2	882.0	4
885.5	4	891.0	2	893.5	4	896.0	2
916.0	2	938.5	4	961.0	2	979.5	4
984.5	0	990.5	2	998.5	4	1015.5	0
1030.0	0	1178.5	0	1179.5	0	1180.5	0
1187.0	0	1211.0	2	1214.0	0	1230.5	0
1251.5	2	1256.5	0	1262.5	2	1279.5	0
1280.5	0	1282.0	2	1290.0	0	1297.5	0
1310.0	2	1319.5	0	1321.5	2	1333.0	0
1344.5	0	1348.0	2	1351.0	0	1365.5	2
1401.0	2	1403.0	0	1404.5	2	1405.0	0
1425.5	0	1435.0	2	1436.5	0	1445.0	2
1447.0	2	1448.5	0	1449.5	2	1450.0	0
1468.5	0	1474.5	2	1476.0	0	1481.5	2
1561.0	0	1569.0	0	1576.5	1	1599.0	0

Figure 17 Kenmore to Auditorium Data

PAGE A 2

FROM - KENMORE TO - AUDITORIUM GAGE				FEET			
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1625.5	0	1627.5	1	1647.0	0	1646.5	1
1650.5	1	1654.0	0	1674.0	1	1711.0	0
1722.5	0	1735.0	1	1737.0	0	1742.5	1
1749.0	1	1761.0	0	1765.5	1	1786.5	0
1812.5	0	1815.5	1	1820.5	0	1822.0	1
1876.0	1	1905.0	0	1920.0	1	1925.5	0
2045.5	0	2064.5	1	2074.5	0	2077.5	1
2084.5	1	2108.5	0	2112.0	1	2125.5	0
2155.5	0	2157.0	1	2184.5	0	2186.5	2
2210.5	2	2211.0	0	2230.5	2	2235.5	0
2264.5	0	2277.0	2	2297.5	0	2309.0	2
2322.5	2	2371.5	0	2378.5	1	2379.0	2

Figure 17 Kenmore to Auditorium Data (cont'd)

**FROM - KENMORE
TO - AUDITORIUM
GAGE**

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
393.0	4	57.603	395.0	1	56.198	399.0	4	57.252
431.0	4	57.357	448.5	4	57.674	454.5	1	56.235
457.0	1	56.203	459.0	1	56.234	573.0	4	57.295
583.5	4	57.282	585.5	4	57.273	587.5	4	57.298
623.5	6	57.837	622.5	4	57.360	705.0	4	57.445
708.5	4	57.267	737.0	4	57.253	770.5	4	57.432
867.5	4	57.477	802.0	4	57.355	866.5	4	57.352
893.5	4	57.666	915.5	4	57.371	930.5	4	57.296
979.5	4	57.398	984.5	4	57.291	995.5	4	57.295
1561.0	1	56.233	1598.5	1	57.146	1633.5	1	56.196
1627.5	1	56.245	1646.5	1	56.229	1650.5	1	56.238
1669.0	1	56.191	1711.5	1	56.250	1733.0	1	56.209
1742.5	1	56.195	1749.0	1	56.245	1762.5	1	56.277
1789.5	1	56.234	1815.5	1	56.270	1820.0	1	56.241
1876.0	1	56.247	1939.0	1	56.179	1943.5	1	56.241
2064.5	1	56.184	2077.5	1	56.236	2084.5	1	56.295
2112.0	1	56.231	2121.5	1	56.209	2157.5	1	56.217
2378.5	1	56.242	2720.0	1	56.145			

Figure 17 Kenmore to Auditorium Data (cont'd)

		FROM - KENNORE			TO - AUDITORIUM		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.	GAGE	
6	99.00	57.75	.02	1	0.5		
4	57.75	57.25	10.23	24	286.5		
2	57.25	57.00	14.45	70	404.5		
0	57.00	56.25	70.32	80	1969.0		
1	56.25	56.00	4.98	30	133.5		
3	56.00	-99.00	0.00	0	0.0		

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.98
0+1+2	3	56.00	57.25	89.75
0+1	4	56.00	57.00	75.30
6+3	BELOW STANDP	56.00	57.75	0.02

Figure 17 Kenmore to Auditorium Data (cont'd)

FROM - AUDITORIUM
TO - COPLEY
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3.0	0	11.5	1	35.5	0	37.0	1
66.5	2	89.5	0	90.5	2	91.0	0
92.0	0	110.0	2	115.5	0	129.5	2
156.5	2	178.5	0	189.0	2	195.5	0
257.0	0	259.0	1	599.0	0	600.0	1
687.0	2	699.5	0	712.5	2	713.0	0
716.5	4	744.5	2	746.0	0	772.5	2
789.0	2	810.5	0	811.0	2	814.5	0
849.5	0	853.5	2	654.5	0	855.0	2
890.0	2	926.5	0	928.0	2	987.0	0
990.5	0	992.5	2	1018.0	0	989.0	2
1026.0	2	1083.5	0	1083.0	2	1024.5	0
1107.0	0	1119.0	2	1129.0	0	1099.0	2
1302.5	1	1330.5	0	1335.5	1	1292.5	1
1442.5	0	1445.0	1	1495.0	0	1374.5	0
1501.5	1	1556.5	0	1560.0	1	1496.5	0
1573.5	0	1574.0	1	1575.5	0	1573.0	1
1637.0	1	1673.5	0	1674.0	1	1570.0	1
1688.0	0	1691.0	1	1731.5	0	1675.0	1
1741.0	1	1754.5	0	1762.5	1	1738.0	1
1819.0	0	1823.0	1	1825.0	0	1796.5	0
1859.0	1	1856.0	0	1910.0	1	1838.0	1
1906.0	0	2000.5	1	2027.5	0	1914.5	0
2053.5	1	2167.0	0	2175.0	1	2031.5	1
2233.5	0	2254.0	1	2265.0	0	2052.5	0
2470.5	2	2637.0	0	2634.5	2	2272.0	1
2666.5	4	2692.0	2	2733.5	0	2647.5	4
2741.0	4	2741.5	0	2742.0	2	2731.0	2
2751.0	0	2751.0	1	2781.0	0	2747.5	1
						2781.5	2
						2782.0	0

Figure 18 Auditorium to Copley Data

Figure 18 Auditorium to Copley Data (cont'd)

FROM - AUDITORIUM				TO - COBLEY			
		GAGE				GAGE	
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2783.5	4	2785.0	2	2803.5	0	2806.0	2
2820.5	2	2822.0	4	2827.0	2	2827.5	0
2825.0	0	2825.5	3	2834.0	0	2837.0	2
2848.5	2	3144.0	0	3145.0	2	3175.0	0
3249.5	0	3252.0	1				

FROM - AUDITORIUM
TO - COBLEY
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
11.5	1	56.284	37.0	1	56.237	259.8	1	56.233
600.0	1	56.154	716.5	4	56.393	1292.5	1	56.233
1302.5	1	56.241	1333.5	1	56.167	1390.0	1	56.165
1445.0	1	56.242	1455.5	1	56.249	1501.5	1	56.205
1560.0	1	56.233	1573.0	1	56.194	1574.0	1	56.249
1578.0	1	56.238	1587.0	1	56.210	1674.0	1	56.247
1678.0	1	56.237	1681.0	1	56.235	1738.0	1	56.230
1741.0	1	56.243	1752.5	1	56.208	1806.0	1	56.193
1823.0	1	56.221	1838.0	1	56.188	1869.0	1	56.178
1910.0	1	56.148	1938.5	1	56.180	2000.5	1	56.184
2031.5	1	56.214	2033.5	1	56.233	2175.0	1	56.175
2249.0	1	56.218	2244.0	1	56.232	2272.0	1	56.214
2543.5	4	56.281	2616.5	4	56.343	2741.0	4	56.347
2747.5	1	56.218	2751.0	1	56.150	2783.5	4	56.309
2808.5	4	56.314	2832.0	4	56.616	2824.5	5	56.147
2838.0	4	56.302	3,522.0	1	56.228			

Figure 18 Auditorium to Copley Data (cont'd)

Figure 18 Auditorium to Copley Data (cont'd)

PAGE C 1

FROM - AUDITORIUM		TO - COBLEY			
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.03	1	1.0
4	57.75	57.25	0.57	8	19.5
2	57.25	57.00	8.09	43	275.0
0	57.00	56.25	85.43	77	2904.5
1	56.25	56.00	5.88	38	200.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.97
0+1+2	3	56.00	57.25	99.40
0+1	4	56.00	57.00	91.71
6+3	BELOW STANDING	56.00	57.75	0.03

Figure 19 Copley to Arlington Data

FROM - COBLEY TO - ARLINGTON Grade				FROM - COBLEY TO - ARLINGTON Grade			
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3.5	0	4.0	3	8.5	0	9.0	10.0
14.5	1	46.0	0	46.5	2	69.5	74.5
81.0	0	84.5	2	85.5	4	86.0	89.0
109.0	2	865.0	0	867.5	2	868.0	869.0
1147.5	0	1149.0	1	2011.0	5	2017.0	2017.0
2531.0	2	3012.0	0	3013.0	1	3127.0	3127.0

FROM - COPELEY		TO - ARLINGTON		MAX. MAGNITUDE		MAX. MAGNITUDE		FEET		ZONE		MAX. MAGNITUDE	
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
4.0	3	55.957	9.0	56.215	14.5	2017.0	1	56.118	1	56.191	1		
85.5	4	55.565	119.0	56.246									
3022.0	1	55.141	3130.5	56.180									

FIGURE B-1

Figure 19 Copley to Arlington Data (cont'd)

		FROM - COPLEY				TO - ARLINGTON			
		GATE				GATE			
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.	ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL
6	99.00	57.75	0.00	0	0.0	6	99.00	57.75	0.00
4	57.75	57.25	0.03	1	1.0	4	57.75	57.25	0.03
2	57.25	57.00	0.69	8	23.5	2	57.25	57.00	0.69
0	57.00	56.25	98.38	14	3345.0	0	57.00	56.25	98.38
1	56.25	56.00	0.88	6	30.0	1	56.25	56.00	0.88
3	56.00	-99.00	0.01	-	-	3	56.00	-99.00	0.01

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
'+1,2+4	1+2	56.00	57.75	1.75
0+1+2	3	56.00	57.25	1.25
0+1	4	56.00	57.00	99.00
0+1,0U STNDRD	5	56.00	57.75	0.01

Figure 19 Copley to Arlington Data (cont'd)

FROM - ARLINGTON
TO - BOYLSTON
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
990.0	0	1060.0	1	1100.5	0	1108.5	1
1450.5	2	1474.0	0	1485.5	2	1486.0	0
1488.0	0	1489.0	2	1489.5	0	1491.5	2
1498.0	2	1499.5	0	1505.0	2	1505.5	4
1517.0	0	1521.5	2	1549.0	0	1561.0	0
2043.0	2	2059.5	0	2065.5	2	2067.0	0
2070.0	4	2087.0	2	2097.5	0	2101.5	4
2116.5	2	2123.0	0	2125.0	2	2125.5	4
2134.0	0	2149.0	2	2150.0	0	2164.5	2
2219.0	2	2248.5	0	2251.5	2	2261.0	0
2263.5	0	2267.0	2	2270.5	0	2274.0	0
2465.5	2	2468.5	4	2477.5	2	2481.5	4
2505.5	0	2508.0	4	2519.5	2	2520.5	0
2561.0	3	2573.5	0	2584.5	2	2588.5	0
2593.5	0	2594.0	2	2596.0	2		

Figure 20 Arlington to Boylston Data

FROM - ARLINGTON TO - BOYLSTON GAGE						PAGE B 1					
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
1000.0	1	56.146	1108.5	1	56.176	1494.0	4	57.326			
1501.5	4	57.311	2066.0	4	57.285	2070.0	4	57.341			
2125.5	4	57.256	2468.5	4	57.448	2483.5	4	57.448			
2505.0	4	57.262	2560.0	3	55.370	2561.0	3	55.876			

Figure 20 Arlington to Boylston Data (cont'd)

Figure 20 Arlington to Boylston Data (cont'd)

FROM - ARLINGTON TO - BOYLSTON GRADE		ZONE				UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCUPANCIES	TOTAL FT.
6	99.00		57.75	0.00		0	0	0.0	0	0.0
4	57.75		57.25	0.65		8	8	17.0		
2	57.25		57.00	5.83		32	32	151.5		
0	57.00		56.25	92.79		30	30	241.5		
1	56.25		56.00	0.69		2	2	18.0		
3	56.00		55.00	0.04		1	1	0.0		
		ZONE				TIGHT	WHITE	% OF TOTAL		
0+1+2+4	1+3	1PT CLASS	56.00	57.75		43.96	43.96			
0+1+2	3		56.00	57.25		17.71	17.71			
0+1	4		56.00	57.00		27.04	27.04			
6+3		BELOW STAIRS	56.00	57.00		11.19	11.19			

FROM - BOYLSTON
TO - PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
13.5	0	18.5	2	35.0	0	41.0	2
42.0	2	45.0	4	52.5	2	54.0	0
84.0	0	88.0	2	88.5	0	92.0	2
101.5	2	109.5	0	124.5	2	125.5	0
178.0	0	193.0	2	193.5	0	194.5	2
207.0	2	217.0	0	224.0	2	239.0	0
314.0	0	321.5	2	440.5	0	441.0	2
453.5	2	459.0	4	462.0	2	481.0	0
535.0	0	535.5	3	536.0	0	536.5	3
559.5	2	567.0	0	568.0	2	569.0	0
570.0	0	570.5	2	691.0	0	693.0	2
696.0	2	873.0	0	876.5	1	1063.0	0
1082.5	0	1088.5	2	1091.0	0	1091.5	2
1119.0	2	1148.5	0	1159.5	2	1197.0	0
1220.0	0	1228.5	2	1239.0	0	1237.0	2

Figure 21 Boylston to Park Data

Figure 21 Boylston to Park Data (cont'd)

FROM - BOYLSTON				TO - PARK				PAGE B 1			
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
41.5	4	57.270	45.0	4	57.359	444.0	4	57.440			
459.0	4	57.440	535.5	3	55.953	536.5	3	55.859			
876.5	1	56.236									

		FROM - BOYLSTON			TO - PARK		
					GAUGE		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	HU. OCCUPANCIES	TOTAL FT.		
6	99.00	57.75	0.00	0	0.0		
4	57.75	57.25	0.86	4	12.0		
2	57.25	57.00	15.61	34	218.5		
0	57.00	56.25	83.21	33	1165.0		
1	56.25	56.00	0.25	1	3.5		
3	56.00	50.75	0.07	1	1.0		

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	39.0%
0+1+2	3	56.00	57.25	39.0%
0+1	4	56.00	57.00	31.0%
6+3	BELOW STNDRD	56.00	57.75	3.0%

Figure 21 Boylston to Park Data (cont'd)

FROM - PARK
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
54.5	0	59.0	2	74.0	0	89.5	2
113.5	2	115.0	0	128.0	2	129.5	4
162.5	0	181.5	2	195.5	4	202.5	2
204.5	2	207.5	4	220.0	2	223.0	4
226.5	4	235.0	2	239.0	0	242.0	2
251.0	2	251.5	4	252.0	2	252.5	4
415.5	0	416.0	2	419.5	0	420.5	0
439.0	2	510.5	0	515.0	2	516.0	2
558.5	0	566.0	2	561.5	0	565.0	0
566.5	2	568.0	0	568.5	2	602.5	2
631.0	0	640.5	2	696.4	0	697.5	0
839.0	2	838.5	0	844.0	0	868.0	0
913.5	0	920.0	2	931.5	0	948.0	0
969.0	2	940.0	0	947.5	2	967.0	0
1106.5	4	1121.0	2	1141.5	0	1145.5	2
1168.5	2	1182.0	0	1189.5	2	1271.0	0
1242.5	0	1245.0	1	1245.5	1	1271.0	1
1278.0	1	1324.5	0	1324.0	1	1501.5	0
1578.5	0	1581.0	2	1677.5	0	1646.0	2
1917.5	0	1937.5	0	1935.0	0	1934.5	0

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Figure 22 Park to Government Center Data

FROM - PARK

TO - GOVERNMENT CENTER

GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
129.5	4	57.276	195.5	4	57.507	207.0	4	57.375
207.5	4	57.314	223.0	4	57.265	226.5	4	57.295
245.0	4	57.228	231.5	4	57.292	252.5	4	57.253
688.0	1	56.135	963.0	4	57.262	1106.5	4	57.388
1239.0	1	56.134	1245.0	1	56.148	1251.0	1	56.141
1278.0	1	56.113	1334.0	1	56.134	2188.5	1	56.209

Figure 22 Park to Government Center Data (cont'd)

FROM - PARK TO - GOVERNMENT CENTER GAGE					
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	1.54	11	37.0
2	57.25	57.00	12.83	45	308.0
0	57.00	56.25	81.96	39	2015.0
1	56.25	56.00	1.67	7	40.0
3	56.00	-95.00	0.00	0	0.0

ZONE	TRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	98.45
0+1	4	56.00	57.00	85.62
6+3	BELOW STNDP	56.00	57.75	0.00

Figure 22 Park to Government Center Data (cont'd)



FROM - GOVERNMENT CENTER
TO - HAYMARKET
GRADE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
33.5	0	39.5	2	59.5	0	60.5	305.5
310.5	1	533.0	0	538.5	1	766.5	0
919.0	0	923.0	2	953.0	0	960.5	0
976.5	1	1021.5	0	1021.5	1	1074.0	0
1099.5	0	1106.5	2	1176.0	0	1193.5	1
1206.5	1	1287.5	0	1296.5	1	1294.0	0
1358.0	4	1360.5	2	1368.0	0	1370.0	1
1393.5	2	1397.0	4				

Figure 23 Government Center to Haymarket Data

FPM1 - GOVERNMENT CENTER
TO - HAYMARKET
Grid

FEET	ZONE	Lat: MASTITUDE	FEET	ZONE	Lat: MASTITUDE
310.5	1	56.212	538.5	1	56.223
975.5	1	56.335	1022.5	1	56.064
1103.5	1	56.177	1206.5	1	56.232
1752.0	4	57.339	57.5	4	57.5

Figure 23 Government Center to Haymarket Data (cont'd)

FROM - GOVERNMENT CENTER
TO - HAYMARKET
GAZE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCUPANCIES	TOTAL FT.
6	59.00	57.75	0.00	0	0.0
4	57.75	57.25	0.29	2	4.0
2	57.25	57.00	2.07	10	20.0
0	57.00	56.25	95.18	17	1332.5
1	56.25	56.00	2.46	9	34.5
3	56.00	-55.00	0.00	n	..

ZONE	IFT CL 0.5%	TIGHT	LOOSE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	1.11%
0+1+2	3	56.00	57.25	1.11%
0+1	4	56.00	57.00	5.56%
6+3	BELOW STNDRD	56.00	57.75	11.11%

Figure 23 Government Center to Haymarket Data (cont'd)

FROM - HAYMARKET
TO - NORTH STATION
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
181.0	0	187.5	1	722.5	0	725.0	1
728.5	1	751.0	0	754.5	2	825.0	0
852.5	0	856.5	1	857.0	0	856.5	1
915.0	1	934.5	0	946.0	1	1004.5	0
1042.5	0	1046.0	2	1013.5	0	1083.0	2
1171.0	2	1176.0	0	1170.5	1	1183.0	0
1227.5	0	1230.0	1	1219.0	0	1205.0	1
2304.0	0	2304.0	1	2313.0	1	2315.0	0
2449.0	0	2450.0	2	2417.5	0	2488.0	1
2489.5	0	2490.0	2	2412.5	0	2493.0	2
2497.5	2	2498.0	0	2418.5	2	2465.5	0
2566.5	0	2574.0	2	2518.0	0	2570.5	2
2867.5	2	2901.0	0	2801.5	2	2862.0	0
3056.5	0	3063.0	2	3015.0	0	3053.0	2
3120.0	2	3123.0	0	3155.0	2	3109.0	0
3135.5	0	3139.5	2	3155.0	2	3150.0	0
3235.0	2	3249.0	0	3155.0	2	3205.0	2
3308.0	0	3308.5	2	3255.0	0	3200.0	0
3311.5	2	3322.0	0	3255.0	0	3200.0	0
3330.0	0	3331.0	2	3255.0	0	3200.0	0
3339.0	2	3339.5	0	3255.0	0	3200.0	0
3355.0	0	3354.5	2	3255.0	0	3200.0	0
3376.5	2	3378.0	4	3255.0	0	3200.0	0
3382.5	4	3387.5	2	3255.0	0	3200.0	0

Figure 24 Haymarket to North Station Data

FROM - HAYMARKET
TO - NORTH STATION
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
187.5	1	56.111	75.0	1	56.227	74.5	1	56.227
833.5	1	56.172	356.5	1	56.109	355.5	1	56.116
915.0	1	56.148	354.0	1	56.125	165.0	1	56.209
1050.5	1	56.172	1055.0	1	56.125	1350.5	1	56.241
2275.5	1	56.202	2347.0	1	56.155	2375.5	1	56.155
2498.5	3	56.309	3107.5	3	56.155	3135.0	3	56.205
3770.0	4	56.325	3775.5	4	56.225	3775.5	4	56.215

Figure 24 Haymarket to North Station Data (cont'd)

		FP01 - HAYMARKET			TN - NORTH STATION		
		Grid			Grid		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCUPANCIES	NO. OCCUPANCIES	TOTAL FT.	TOTAL FT.
6	59.00	57.75	0.00	0	0	0.0	0.0
4	57.75	57.25	0.29	3	3	10.0	10.0
2	57.25	57.00	6.14	41	41	215.0	215.0
0	57.00	56.25	90.76	56	56	300.0	300.0
1	56.25	55.00	5.44	17	17	83.0	83.0
3	55.00	54.00	0.00	0	0	0.0	0.0
ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL	% OF TOTAL		
0+1+2+4	1+2	56.00	57.75	99.94	99.94		
0+1+2	3	56.00	57.25	99.67	99.67		
0+1	4	55.00	57.00	93.21	93.21		
6+3	85.00 < THDPH	56.00	57.75	0.00	0.00		

Figure 24 Haymarket to North Station Data (cont'd)

FROM - NORTH STATION
TO - SCIENCE PARK
GRADE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
10.5	1	139.5	0	140.5	2	178.0	0
179.5	0	180.0	2	182.5	0	183.0	2
187.5	2	256.0	0	257.0	2	259.0	0
438.5	0	440.5	2	555.0	0	557.5	2
59.5	2	738.5	0	743.5	2	751.0	0
789.5	0	808.5	2	809.40	0	810.5	2
823.5	2	825.5	0	826.0	2	827.0	0
837.5	4	858.0	2	858.5	0	904.0	2
911.5	2	924.5	0	925.5	2	927.0	0
939.5	0	949.0	2	958.5	0	968.0	2
1012.5	2	1013.0	0	1019.5	2	1020.5	0
1027.0	0	1027.5	2	1028.0	0	1029.0	2
1037.0	2	1037.5	0	1039.0	2	1039.5	0
1043.0	0	1044.5	2	1045.0	0	1049.0	1
1064.0	0	1067.0	2	1068.0	4	1069.5	2
1072.5	2	1073.0	4	1074.5	2	1077.5	0
1099.5	0	1104.5	2	1141.5	0	1146.5	1
1158.5	1	1233.0	0	1935.0	2	1979.5	0
2002.0	0	2015.0	2	2030.5	0	2034.5	2
2005.0	2	2075.5	0	2080.0	2	2082.0	0
2087.5	0	2094.5	2	2095.0	0	2114.0	2
2124.5	0	2125.0	0	2125.5	2	2136.0	0
2151.5	0	2158.5	2	2175.0	0	2176.0	2
2167.5	0	2188.5	2	2189.0	2	2198.0	0
2211.0	4	2211.5	2	2212.5	4	2220.0	2
2221.5	2	2225.0	0	2225.5	2	2227.0	0
2237.5	2	2241.0	0	2241.5	2	2241.5	0
2270.5	0	2272.0	0	2354.5	1	2359.0	0
2360.0	1	2361.0	0	2375.0	0	2380.0	0

Figure 25 North Station to Science Park Data

FROM - NORTH STATION
TO - SCIENCE PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2384.0	1	2396.0	0	2396.5	1	2397.0	3
2398.0	0	2401.5	1	2629.0	0	2633.0	1
2650.5	1	2651.0	0	2653.0	1	2657.5	0
2738.5	0	2742.5	1	2791.0	0	2795.5	1
2813.0	1	2868.0	0	2870.0	1	2945.5	0
2980.5	0	2986.0	1	2987.5	0	2988.0	1
3009.0	1	3262.0	0	3262.5	1	3526.0	0
3599.5	0	3602.0	1	3616.5	0	3617.5	1
3648.5	1	3672.5	0	3674.5	1	3703.0	0
3762.0	0	3773.0	1	3776.0	0	3782.0	1
3846.5	1	3852.5	0	3855.0	1	3859.0	0
3921.5	0	3922.0	1	3928.0	0	3935.0	1
3949.5	1	4051.0	0	4051.5	1	4103.5	0
4116.0	0	4155.0	1	4155.5	0	4157.5	1
4176.5	1	4190.0	0	4192.5	1	4194.5	0
4349.0	0	4259.5	1	4271.0	0	4273.5	1
4396.0	0	4398.5	1	4401.0	0	4403.5	1
4540.0	0	4577.0	1	4577.5	0	4578.5	1
4584.0	1	4626.5	0	4627.0	1	4631.5	0
4650.5	0	4662.0	1	4662.5	0	4664.5	1
4665.5	1	4676.0	0	4677.5	1	4679.5	0
4776.0	1	4876.5	0	4877.0	1	4879.5	0
4877.5	0	4878.0	1	4878.5	0	4879.5	1
4993.5	1	4993.5	0	4994.0	1	4994.5	0

Figure 25 North Station to Science Park Data (cont'd)

FROM - NORTH STATION TO - SCIENCE PARK GAGE				FEET				FEET				FEET			
FEET	ZONE	MAX MAGNITUDE	ZONE	FEET	ZONE	MAX MAGNITUDE	ZONE	FEET	ZONE	MAX MAGNITUDE	ZONE	FEET	ZONE	MAX MAGNITUDE	ZONE
10.5	1	56.170		179.0	3	55.931		837.5	4	57.371					
1050.0	3	55.860		1068.0	4	57.314		1073.0	4	57.270					
1082.5	1	56.105		1146.5	1	56.220		1158.5	1	56.204					
2311.0	4	57.275		2212.5	4	57.282		2354.5	1	56.221					
2360.0	1	56.110		2361.0	1	56.249		2380.5	1	56.191					
2384.0	1	56.219		2397.0	3	55.787		401.5	1	56.186					
2633.0	1	56.215		2650.5	1	56.177		453.0	1	56.241					
2679.5	1	56.120		2742.5	1	56.137		495.5	1	56.200					
2813.0	1	56.132		2870.0	1	56.192		552.0	1	56.166					
2986.0	1	56.205		2988.0	1	56.246		3009.0	1	56.245					
3262.5	1	56.217		3530.5	1	56.174		3022.5	1	56.224					
3617.5	1	56.245		3648.5	1	56.14		3874.5	1	56.147					
3632.0	1	56.113		3772.0	1	56.225		3822.5	1	56.180					
3846.5	1	56.121		3855.0	1	56.247		420.5	1	56.180					
7322.0	1	56.241		3935.0	1	56.211		439.5	1	56.180					
4091.5	1	56.101		4115.0	1	56.161		435.5	1	56.180					
4175.5	1	56.091		4176.5	1	56.249		493.5	1	56.180					
4212.5	1	56.14		4259.5	1	56.151		65.5	1	56.180					
4308.0	1	56.127		4313.5	1	56.231		34.5	1	56.180					
4357.0	1	56.121		4382.5	1	56.247		84.5	1	56.180					
4427.0	1	56.232		4650.5	1	56.121		62.5	1	56.180					
4564.0	1	56.225		4665.5	1	56.245		76.5	1	56.180					
4775.5	3	56.601		4775.0	6	57.681		80.5	3	58.075					
4782.0	6	56.797		4785.5	6	58.075									

Figure 25 North Station to Science Park Data (cont'd)

FROM - NORTH STATION
TO - SCIENCE PARK

ONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	H.O. OCCUPANCIES	TOTAL FT.
6	99.00	57.75	0.08	3	4.0
4	57.75	57.25	0.27	8	13.0
2	57.25	51.00	7.21	64	346.0
0	57.00	56.25	81.50	121	3912.0
1	56.25	56.00	10.75	62	517.0
3	56.00	-29.00	0.17	1	.0

TESTS	PT CLASS	TIGHT	WHITE	THIN
1+1+1+2+1	1+2	56.00	57.75	9.75
1+1+1+1+2	5	56.00	57.25	9.75
1+1+1+1+1	4	56.00	57.00	9.75
ECLOUD THREE	56.00	57.75	9.75	9.75
56.53				

Figure 25 North Station to Science Park Data (cont'd)

FROM - SCIENCE PARK
TO - LECHMERE
GASE

FEET	ZONE								
1.5	0	8.0	2	10.5	0	13.0	1	16.0	0
35.0	2	72.0	0	77.5	1	78.0	0	78.5	1
83.5	0	89.0	1	853.5	0	866.0	2	910.0	0
914.0	2	932.5	0	945.0	2	969.0	0	978.5	2
979.0	0	984.5	2	989.0	0	991.5	2	992.0	0
995.5	2	1006.0	0	1010.5	2	1012.5	0	1017.0	2
1018.0	0	1018.5	2	1019.0	0	1024.5	2	1027.0	0
1029.0	2	1029.5	0	1044.5	2	1049.0	0	1055.0	2
1055.5	0	1057.0	2	1066.5	0	1081.0	2	1083.0	0
1087.5	2	1088.5	0	1089.0	2	1089.5	0	1105.0	2
1117.0	0	1117.5	2	1119.0	0	1119.5	2	1128.5	0
1140.5	2	1141.0	4	1142.0	2	1142.5	4	1150.5	2
1151.0	0	1152.0	2	1158.5	0	1159.0	2	1164.0	0
1171.0	2	1177.5	0	1181.0	2	1257.0	0	1258.0	1
1282.0	0	1285.0	1	1289.5	0	1290.5	1	1291.0	0
1291.5	1	1305.5	0	1310.5	1	1314.0	0	1314.5	1
1326.5	0	1327.0	1	1327.5	3	1322.0	1	1552.5	0
1554.0	1	1559.5	0	1563.5	1	1573.5	0	1564.0	1
1597.5	0	1610.5	1	1669.0	0	1675.0	1	1714.5	0
1726.0	1	1731.0	0	1743.5	1	1798.5	0	1801.5	1
1876.5	0	1882.5	1	1911.0	0	1916.5	1	1917.5	0
1917.5	1	1918.0	0	1918.5	1	1935.0	0	1940.5	1
2192.5	0	2193.0	1	2456.5	0	2467.5	1	2473.5	0
2532.5	1	2541.0	0	2548.0	1	2557.0	0	2562.5	1
2603.0	0	2605.0	1	2633.5	0	2662.5	1	2672.5	0
2668.0	1	2669.0	0	2669.5	1	2706.5	1	2712.5	1
2692.0	0	2702.5	1	2783.5	0	2805.0	1	2812.5	0
2777.5	1	2778.0	0	2829.0	0	2851.0	1	2854.0	0
2826.0	0	2836.5	1						

Figure 26 Science Park to Lechmere Data

Figure 26 Science Park to Lechmere Data (cont'd)

FROM - SCIENCE PARK			TO - LECHMERE		
GAG			GAG		
FEET	ZONE	FEET	ZONE	FEET	ZONE
2952.5	I	2952.5	I	3177.5	I
2910.0	II	2910.0	II	3180.0	II
3063.5	I	3063.5	I	3190.5	I
3107.5	II	3107.5	II	3193.5	I
3149.0	I	3149.0	I	3195.0	I

FROM - SCIENCE PARK TO - LECHMERE GAGE		FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
13.0	1	56.081			77.5	1	56.214	78.5	1	56.246
89.0	1	56.192			1141.0	4	57.271	1142.5	4	57.259
128.0	1	56.248			1285.0	1	56.223	1290.5	1	56.118
1291.5	1	56.246			1310.5	1	56.189	1314.5	1	56.242
1337.5	3	55.768			1554.0	1	56.247	1563.5	1	56.209
1584.0	1	56.171			1610.5	1	56.116	1673.0	1	56.125
1726.0	1	56.205			1743.5	1	56.130	1800.5	1	56.189
1882.5	1	56.167			1916.5	1	56.205	1917.5	1	56.248
1918.5	1	56.248			1940.0	1	56.240	2193.0	1	56.17
2467.5	1	56.171			2532.5	1	56.222	2548.0	1	56.11
2519.0	1	56.148			2605.0	1	56.239	2665.5	1	56.
2668.0	1	56.249			2669.5	1	56.247	2673.0	1	56.
2792.5	1	56.222			2712.5	1	56.191	2775.5	1	56.
2723.5	1	56.246			2825.5	1	56.247	2816.5	1	56.
2851.0	1	56.157			2852.5	1	56.278	286.0	1	56..
2880.0	1	56.234			2910.5	1	56.249	302.0	1	56..
3067.5	1	56.097			3106.0	1	56.090	317.0	1	56..
3108.0	1	56.249			3143.0	1	56.173	310.0	1	56..
3191.0	1	56.227								

Figure 26 Science Park to Lechmere Data (cont'd)

FROM - SCIENCE PARK TO - LECHMERE					
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.03	2	1.0
2	57.25	57.00	0.89	30	156.5
0	57.00	56.25	83.00	81	2656.0
1	56.25	56.00	12.06	54	386.0
3	56.00	-99.00	0.02	1	0.5

ZONE(S)	INT CLASS	TIGHT	LINE	WIDFTOTAL
0+1+2+4	1+2	56.00	57.75	99.98
0+1+2	3	56.00	57.75	72.51
0+1	4	56.00	57.00	95.06
6+3	BELOW STNDRD	56.00	57.75	0.02

Figure 26 Science Park to Lechmere Data (cont'd)

FROM - LECHMERE
TO - SCIENCE PARK
GAGE

FEET	ZONE								
1.5	0	2.0	2	2.5	0	3.0	4	4.0	2
5.5	0	6.0	1	6.5	0	7.0	2	8.0	0
16.0	1	16.5	6	17.0	4	22.0	6	22.5	4
23.0	6	23.5	4	24.0	6	26.0	8	27.5	4
36.0	6	36.5	0	37.0	6	37.5	4	38.0	0
38.5	4	42.0	0	42.5	6	44.0	0	44.5	2
45.5	4	46.0	2	49.0	6	49.5	4	50.0	6
52.5	4	53.0	2	53.5	4	54.0	2	54.5	1
55.0	2	55.5	0	56.0	2	56.5	0	58.0	2
58.5	0	59.0	2	63.5	0	66.0	2	66.5	0
69.5	2	77.0	0	80.5	2	81.5	4	82.0	2
82.5	0	83.0	2	90.0	0	92.5	2	93.0	4
94.0	2	94.5	0	95.0	2	96.5	6	97.5	4
99.5	2	114.0	0	117.0	2	118.0	4	121.5	2
122.5	0	127.0	2	128.5	4	132.0	2	132.5	0
133.0	4	133.5	2	134.0	0	136.0	2	138.5	4
141.0	2	145.5	4	146.5	2	149.0	4	150.0	2
152.0	4	153.5	6	161.5	4	163.0	6	173.0	4
185.5	2	186.5	4	187.0	6	187.5	0	189.0	2
194.5	0	202.0	2	204.0	4	205.0	2	208.0	0
208.5	1	210.5	0	211.0	1	212.0	0	213.0	2
216.0	0	219.5	1	220.0	0	230.5	2	231.5	0
222.0	2	228.0	0	233.0	1	233.5	0	235.0	2
245.5	4	261.5	2	271.0	0	277.5	2	281.0	4
272.0	2	279.5	4	280.0	6	281.0	4	284.0	2
287.0	4	302.5	2	307.5	0	313.5	2	318.5	4
346.0	6	348.0	4	349.5	6	349.5	4	351.5	6
364.0	4	364.5	6	359.0	4	374.0	2	375.5	4
434.0	2	434.0	4	564.0	5	568.0	1	568.5	6

Figure 27 Lechmere to Science Park Data

FROM - LECHMERE
TO - SCIENCE PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
574.5	4	579.0	2	585.0	0	591.0	2
635.5	2	644.5	0	645.5	2	650.0	4
756.0	4	761.5	2	780.5	0	782.0	2
783.5	2	796.0	0	796.5	2	813.5	0
861.0	0	865.5	2	873.5	0	918.5	2
940.5	2	944.5	0	962.0	2	963.0	0
1031.5	0	1032.5	2	1049.0	0	1055.0	2
1066.5	2	1067.0	0	1067.5	2	1070.5	0
1095.0	4	1096.5	2	1097.0	4	1098.0	2
1196.5	2	1111.0	0	1136.0	2	1138.5	0
1171.0	0	1172.0	2	1173.0	0	1173.5	2
1175.0	2	1197.0	0	1213.0	2	1268.0	0
1200.5	0	1212.5	2	1213.0	0	1273.5	2
1227.0	2	1226.5	0	1228.0	2	1310.5	0
1318.5	0	1323.0	2	1327.0	0	1330.0	2
1333.0	2	1334.0	4	1337.0	0	1354.0	0
1632.0	0	1635.0	2	1773.5	0	1774.0	0
1776.5	2	1721.0	0	1792.0	2	1964.0	0
1968.0	0	1973.5	2	1975.0	0	1976.5	0
1981.0	2	1981.5	4	1984.0	0	2013.0	2
2115.5	0	2119.0	2	2131.0	0	2142.5	0
2178.5	2	2194.0	0	2195.5	0	2211.0	2
2217.0	0	2218.5	2	2220.5	0	2245.5	0
2250.5	2	2251.0	0	2264.5	0	2270.5	2
2341.5	0	2342.0	2	2351.0	0	2374.5	0
2400.0	2	2400.5	0	2417.0	2	2424.5	0
2476.0	0	2476.5	2	2479.5	0	2500.5	2
2501.5	2	2501.5	0	2504.0	2	2517.0	0
2518.5	0	2518.5	2	2520.0	0	2527.0	2

Figure 27 Lechmere to Science Park Data (cont'd)

FROM - LECHMERE
TO - SCIENCE PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3134.5	2	3135.5	4	3159.0	2	3160.0	2
3163.5	0	3170.0	2	3180.5	0	3190.5	2
3209.5	2	3212.0	0	3250.0	2	3250.5	4
3295.0	0	3296.5	2	3301.5	0	3309.5	2
3324.0	2	3330.5	0	3353.5	2	3354.5	0
3384.0	4	3394.5	2	3386.0	4	3395.5	2
3415.5	2	3416.0	4	3423.0	2	3441.5	0
3447.0	0	3449.0	2	3471.0	0	3479.0	2
3502.5	2	3508.5	0	3509.0	2	3510.5	0
3517.5	4	3530.5	2	3553.0	4	3605.5	0
3630.5	2	3631.0	4	3645.5	2	3657.0	0
3743.5	4	3744.0	2				

Figure 27 Lechmere to Science Park Data (cont'd)

FROM - LECHMERE
TO - SCIENCE PARK
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
3.0	4	57-.453	6.0	1	56-.062	16.5	6	58-.224
22.0	6	58-.399	23.0	6	57-.753	24.0	6	58-.085
36.0	6	58-.420	37.0	6	57-.894	38.5	4	57-.294
42.5	6	58-.155	45.5	4	57-.448	49.0	6	58-.483
50.0	6	57-.878	53.5	4	57-.261	54.5	1	56-.092
81.5	4	57-.340	93.0	4	57-.313	96.5	6	58-.178
118.0	4	57-.267	128.5	4	57-.264	133.0	4	57-.263
139.5	4	57-.364	145.5	4	57-.518	149.0	4	57-.369
153.5	6	57-.918	165.0	6	57-.842	186.5	4	57-.310
201.0	4	57-.452	218.5	1	56-.244	214.0	1	56-.240
219.5	1	56-.115	245.5	4	57-.411	252.0	1	57-.271
279.5	4	57-.263	271.0	4	57-.264	274.0	4	57-.271
347.0	6	57-.754	348.5	6	57-.745	351.0	1	57-.016
364.5	3	57-.785	417.5	4	57-.293	414.0	4	57-.147
563.5	6	57-.762	630.0	4	57-.179	644.0	4	57-.147
756.0	4	57-.389	775.0	3	57-.434	783.0	3	57-.434
1038.5	4	57-.274	1171.0	4	57-.459	1171.0	4	57-.459
2424.5	4	57-.361	3137.0	4	57-.141	3137.0	4	57-.141
3291.5	3	57-.356	3737.0	4	57-.141	3737.0	4	57-.141
7416.0	4	57-.271	7632.5	3	57-.141	7777.0	3	57-.141
7671.0	4	57-.314	7777.0	3	57-.141	7777.0	3	57-.141

Figure 27 Lechmere to Science Park Data (cont'd)

		FROM = LECHMERE TO = SCIENCE PARK GAZE			TOTAL FT.		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	HD. OCCUPANCIES	TOTAL FT.		
6	99.00	57.75	0.74	17	28.0		
4	57.75	57.25	16.32	58	620.0		
2	57.25	57.00	26.28	150	993.5		
0	57.00	56.25	56.32	116	2140.0		
1	56.25	56.00	0.36	6	13.5		
3	56.00	-99.00	0.00	0	0.0		

ZONES	TRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	39.26
0+1+2	3	56.00	57.25	32.35
0+1	4	56.00	57.00	52.67
6+3	BELW STRPP	56.00	57.75	0.74

Figure 27 Lechmere to Science Park Data (cont'd)

FROM - SCIENCE PARK
TO - NORTH STATION
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
46.0	0	52.0	2	58.5	0	61.5	2
84.5	2	117.0	0	121.0	2	137.0	0
150.5	0	161.5	2	173.0	0	184.5	2
192.5	2	197.0	0	207.0	2	247.5	0
236.5	0	297.0	2	300.5	0	306.5	2
342.5	2	352.0	0	365.5	2	367.0	4
368.5	0	370.0	2	458.5	0	460.5	2
633.0	2	944.5	0	946.5	2	1044.0	0
1061.0	4	1066.5	2	1068.0	0	1068.5	2
1077.5	0	1078.0	4	1101.5	2	1102.5	0
1106.5	0	1112.0	2	1123.0	0	1133.0	2
1152.0	2	1154.5	0	1230.5	2	1238.0	0
1244.5	0	1252.0	2	1287.0	0	1266.5	2
1296.0	2	1297.0	0	1325.0	2	1326.5	4
1329.0	4	1336.0	2	1354.5	0	1358.0	2
1365.5	2	1384.0	0	1386.0	2	1390.0	0
1414.0	0	1421.5	2	1442.5	0	1445.0	2
1458.0	2	1459.0	4	1459.5	2	1460.0	4
1495.5	4	1548.0	2	1512.0	0	1580.0	2
1538.5	2	1686.0	4	1695.5	2	1745.5	4
1746.5	4	1754.0	2	1755.0	4	1756.5	6
1766.5	2	1800.5	4	1801.0	6	1897.5	4
1911.5	4	1915.0	2	1941.0	0	1947.0	2
2058.0	2	2193.5	0	2198.0	2	2195.5	0
2200.0	0	2200.5	2	2230.0	0	2227.0	2
2230.0	2	2230.5	0	2232.0	2	2237.0	0
2255.5	0	2256.0	2	2257.0	0	2271.5	2
2279.0	2	2280.0	4	2284.0	2	2281.0	4
2295.5	0	2308.0	2	2308.0	4	2311.5	0

Figure 28 Science Park to North Station Data

FROM - SCIENCE PARK
TO - NORTH STATION
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2325.5	2	2326.5	0	2327.0	1	2329.0	0
2335.0	4	2339.0	2	2341.0	0	2352.0	2
2373.0	2	2375.0	0	2411.5	2	2413.0	0
2418.0	1	2418.5	1	2420.5	0	2435.0	2
2441.0	1	2441.5	2	2444.0	0	2450.0	2
2454.5	1	2470.5	2	2473.0	0	2473.5	1
2477.0	0	2479.5	1	2487.5	2	2488.0	0
2489.0	0	2506.0	2	2508.5	0	2509.0	2
2515.0	2	2519.5	0	2523.5	2	2523.0	0
2526.0	0	2529.5	2	2534.0	0	2568.0	2
2569.0	1	2572.5	0	2577.0	2	2587.5	0
2588.5	2	2589.0	0	2589.5	2	2590.0	0
2591.0	4	2591.5	2	2592.0	0	2593.0	2
2602.5	1	2603.0	2	2603.5	4	2604.0	2
2611.5	1	2612.5	0	2618.5	2	2631.5	0
2642.5	4	2646.0	2	2653.0	0	2697.0	2
2729.0	2	2771.5	0	2777.0	2	2813.0	0
2815.0	0	2837.5	2	2840.5	4	2841.0	2
2840.0	2	2841.0	4	2847.0	2	2848.0	4
2844.0	0	2844.0	2	2844.0	0	2844.0	2
3121.0	2	3133.5	0	3136.0	2	3163.0	4
3170.0	4	3186.5	2	3187.5	4	3188.0	2
3192.0	2	3193.0	4	3193.0	2	3205.0	4
3226.5	4	3227.0	2	3225.5	4	3226.0	2
3248.5	4	3248.5	4	3248.5	4	3248.5	4
3285.0	4	3288.5	2	3321.0	4	3333.5	2
3339.0	2	3342.5	4	3352.0	2	3352.5	4
3395.0	0	3397.0	2	3645.0	0	3648.5	2
3774.5	-	3941.0	-	3941.0	-	3941.0	-

Figure 28 Science Park to North Station Data (cont'd)

FROM - SCIENCE PARK
TO - NORTH STATION
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3824.0	0	3825.0	2	3999.0	0	4002.0	2
4058.5	2	4059.5	0	4063.0	2	4072.0	0
4085.5	4	4087.5	2	4088.5	4	4090.0	2
4094.0	2	4117.5	0	4119.0	2	4137.0	0
4188.0	4	4189.5	2	4192.0	4	4195.0	2
4378.5	2	4379.0	0	4388.5	2	4389.0	0
4394.0	4	4401.0	2	4413.5	0	4423.0	2
4424.0	4	4425.5	6	4426.0	4	4426.5	2
4429.5	2	4430.5	0	4435.0	2	4436.0	0
4437.0	0	4439.5	1	4440.0	0	4442.0	2
4444.0	2	4444.5	0	4452.5	2	4453.5	0
4460.5	0	4463.5	2	4466.5	0	4472.0	2
4487.0	2	4488.5	4	4490.5	2	4491.0	0
4507.0	0	4510.5	2	4511.5	4	4512.0	2
4513.5	2	4514.5	4	4515.5	2	4516.0	0
4520.5	0	4521.0	2	4521.5	0	4534.0	2
4538.0	2	4539.5	4	4540.0	2	4541.0	4
4543.0	4	4556.5	2	4575.5	0	4580.0	0
4559.5	2	4562.5	4	4563.0	2	4565.5	2
4576.0	0	4576.5	2	4580.0	0	4580.5	2
4582.5	0	4583.5	4	4584.0	2	4585.0	4
4591.0	0	4598.0	2	4591.0	4	4592.0	2
4595.5	0	4598.0	4	4602.5	0	4614.0	2

Figure 28 Science Park to North Station Data (cont'd)

FROM - SCIENCE PARK
TO - NORTH STATION
GRADE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
367.0	4	57.344	1061.0	4	57.407	1078.0	4	57.252
1326.5	4	57.298	1329.0	4	57.259	1358.5	4	57.265
1459.0	4	57.259	1460.0	4	57.251	1465.5	4	57.260
1686.0	4	57.146	1745.5	4	57.164	1746.5	4	57.258
1726.5	6	57.945	1801.5	6	57.787	1911.5	4	57.785
2198.5	4	57.319	2278.0	4	57.371	2290.0	4	57.355
2285.0	4	57.257	2327.0	1	56.233	2325.0	4	57.512
2418.5	1	56.245	2441.0	1	56.186	2454.5	1	56.238
2473.5	1	56.247	2479.5	1	56.186	2488.5	4	57.522
2569.0	1	56.250	2588.0	4	57.100	2591.0	4	57.305
2662.5	1	56.184	2603.5	4	57.175	2611.5	1	56.160
2642.5	4	56.300	3041.0	4	57.307	3168.0	4	57.181
3170.0	4	57.471	3187.5	4	57.367	3191.5	4	57.379
3193.0	4	57.456	3205.0	4	57.300	3206.5	4	57.350
3235.5	4	57.346	3211.0	4	57.338	3215.5	4	57.341
3278.5	4	57.346	3278.5	4	57.338	3281.5	4	57.344
3342.5	4	57.346	3342.5	4	57.338	3345.5	4	57.345
4033.5	4	57.350	4111.0	4	57.346	4115.5	4	57.346
4344.0	4	57.350	4421.5	4	57.349	4426.5	4	57.349
4436.5	4	57.350	4454.0	4	57.349	4459.5	4	57.349
4511.5	4	57.350	4517.5	4	57.349	4523.5	4	57.349
4537.5	4	57.350	4537.5	4	57.349	4543.5	4	57.349
4553.0	4	57.350	4553.0	4	57.349	4559.5	4	57.349
4581.5	4	57.352	4581.5	4	57.351	4587.5	4	57.351
4591.0	4	57.351	4614.5	4	57.351			

Figure 28 Science Park to North Station Data (cont'd)

FROM - SCIENCE PARK
TO - NORTH STATION
Gauge

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.08	3	4.0
4	57.75	57.25	14.25	68	684.0
2	57.25	57.00	23.99	189	1151.5
0	57.00	56.25	61.26	134	2940.5
1	56.25	56.00	0.42	11	20.0
3	56.00	-29.00	0.00	0	0.0

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	20.32
0+1+2	3	56.00	57.25	15.67
0+1	4	56.00	57.00	31.63
6+3	BEL(0)I STH(0)II	56.00	57.75	0.03

Figure 28 Science Park to North Station Data (cont'd)



FROM - NORTH STATION
TO - HAYMARKET
GAZE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
8.0	0	19.5	2	20.0	0	26.0	2
37.0	2	38.0	0	33.5	1	40.5	0
46.5	4	50.5	2	52.5	0	58.0	2
64.0	2	64.5	0	81.5	2	86.5	0
124.5	0	129.0	2	129.5	0	130.0	1
147.5	2	148.0	0	152.5	1	153.0	0
161.5	2	165.5	0	166.0	1	182.0	0
185.0	1	186.5	2	188.5	0	191.0	1
200.0	1	200.5	0	217.5	2	239.0	0
224.0	0	226.5	2	231.0	0	234.0	0
235.5	2	237.5	0	241.0	2	245.5	0
284.0	0	298.5	2	299.0	0	349.5	2
300.5	0	301.0	2	301.5	0	302.0	0
304.5	0	312.0	2	313.5	0	314.0	1
315.0	1	315.5	2	316.0	0	327.0	1
340.0	2	345.0	0	351.5	2	354.0	4
404.5	0	408.5	2	408.0	0	410.5	0
486.5	2	524.5	0	525.0	2	526.5	0
542.0	0	553.5	2	745.0	0	746.5	2
758.5	2	796.5	0	797.0	2	815.5	0
816.5	0	817.5	2	824.0	0	832.5	2
847.5	2	877.5	4	881.0	2	881.5	4
899.0	4	899.5	2	903.0	4	903.5	2
905.0	2	916.5	4	937.0	2	938.0	4
947.0	4	947.5	2	948.0	4	948.5	2
960.0	2	980.0	4	987.5	2	988.0	4
996.5	4	1000.0	2	1032.5	4	1045.0	0
1050.5	2	1053.5	4	1063.0	2	1064.0	0
1106.5	0	1108.5	2	1356.5	5	1360.0	2

Figure 29 North Station to Haymarket Data

FROM - NORTH STATION
TO - HAYMARKET
GAGE

PAGE A 2

FEET	ZONE								
1486.0	2	1512.5	0	1513.0	2	1513.5	0	1520.5	2
1535.5	0	1536.5	2	1610.5	0	1613.5	2	1693.5	0
1770.0	2	1771.5	0	1774.5	2	1783.5	0	1787.0	2
1796.5	4	1799.0	2	1800.0	4	1801.5	2	1805.0	0
1805.5	2	1829.0	0	1830.5	2	1848.5	0	1856.0	2
1899.5	4	1901.0	2	1903.5	4	1964.0	2	2067.5	0
2090.0	2	2090.5	0	2100.0	2	2100.5	0	2104.5	2
2105.5	4	2112.5	2	2125.0	0	2125.5	2	2125.0	0
2135.5	4	2137.0	6	2137.5	4	2138.0	2	2139.5	4
2141.0	0	2142.0	0	2146.5	2	2147.5	0	2148.0	1
2148.5	0	2151.0	1	2151.5	0	2153.5	2	2195.0	0
2155.5	2	2156.0	0	2164.0	0	2165.0	0	2171.0	2
2172.0	0	2175.0	2	2178.0	0	2183.5	2	2190.5	0
2198.5	2	2200.0	4	2202.0	2	2202.5	0	2208.0	2
2218.5	0	2222.0	2	2223.0	4	2223.5	2	2224.5	4
2225.0	2	2236.0	4	2247.0	2	2247.5	0	2251.0	2
2243.0	0	2245.5	2	2249.0	4	2249.5	2	2251.0	4
2251.5	2	2252.5	4	2256.0	4	2256.5	4	2268.0	2
2269.0	0	2270.0	2	2271.0	0	2271.5	1	2281.0	1
2274.5	6	2275.0	4	2276.0	2	2276.5	0	2281.0	4
2291.5	0	2292.0	2	2292.5	4	2293.0	2	2294.5	4
2295.5	2	2302.5	4	2302.5	2	2302.5	0	2304.5	2
2312.5	1	2317.5	2	2317.5	4	2318.0	2	2318.5	4
2314.0	1	2316.0	2	2316.0	4	2316.5	2	2317.0	4
2343.5	0	2344.0	2	2344.0	4	2344.5	2	2345.0	4
2359.5	2	2360.5	0	2360.5	2	2360.5	0	2361.0	2
2371.0	4	2371.0	2	2371.0	4	2371.5	2	2371.5	4
2372.5	4	2373.0	2	2373.0	4	2373.5	2	2374.0	4

Figure 29 North Station to Haymarket Data (cont'd)

FROM - NORTH STATION		TO - HAYMARKET		GATE	
FEET	ZONE	FEET	ZONE	FEET	ZONE
2727.5	6	2731.5	1	2732.0	2
2740.5	1	2755.0	3	2755.5	1
2782.0	4	2783.0	0	2785.5	1

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2739.5	b	2745.0	c	2757.0	d	2761.0	e
2757.0	c	2761.0	d	2765.0	e	2770.0	f
2765.0	d	2770.0	f	2775.0	g	2780.0	h
2775.0	g	2780.0	h	2785.0	i	2790.0	j
2785.0	i	2790.0	j	2795.0	k	2800.0	l
2795.0	k	2800.0	l	2805.0	m	2810.0	n
2805.0	m	2810.0	n	2815.0	o	2820.0	p
2815.0	o	2820.0	p	2825.0	q	2830.0	r
2825.0	q	2830.0	r	2835.0	s	2840.0	t
2835.0	s	2840.0	t	2845.0	u	2850.0	v
2845.0	u	2850.0	v	2855.0	w	2860.0	x
2855.0	w	2860.0	x	2865.0	y	2870.0	z
2865.0	y	2870.0	z	2875.0	aa	2880.0	bb
2875.0	aa	2880.0	bb	2885.0	cc	2890.0	dd
2885.0	cc	2890.0	dd	2895.0	ee	2900.0	ff
2895.0	ee	2900.0	ff	2905.0	gg	2910.0	hh
2905.0	gg	2910.0	hh	2915.0	ii	2920.0	jj
2915.0	ii	2920.0	jj	2925.0	kk	2930.0	ll
2925.0	kk	2930.0	ll	2935.0	mm	2940.0	nn
2935.0	mm	2940.0	nn	2945.0	oo	2950.0	pp
2945.0	oo	2950.0	pp	2955.0	qq	2960.0	rr
2955.0	qq	2960.0	rr	2965.0	ss	2970.0	tt
2965.0	ss	2970.0	tt	2975.0	uu	2980.0	vv
2975.0	uu	2980.0	vv	2985.0	ww	2990.0	xx
2985.0	ww	2990.0	xx	2995.0	yy	3000.0	zz
2995.0	yy	3000.0	zz	3005.0	aa	3010.0	bb
3005.0	aa	3010.0	bb	3015.0	cc	3020.0	dd
3015.0	cc	3020.0	dd	3025.0	ee	3030.0	ff
3025.0	ee	3030.0	ff	3035.0	gg	3040.0	hh
3035.0	gg	3040.0	hh	3045.0	ii	3050.0	jj
3045.0	ii	3050.0	jj	3055.0	kk	3060.0	ll
3055.0	kk	3060.0	ll	3065.0	mm	3070.0	nn
3065.0	mm	3070.0	nn	3075.0	oo	3080.0	pp
3075.0	oo	3080.0	pp	3085.0	qq	3090.0	rr
3085.0	qq	3090.0	rr	3095.0	ss	3100.0	tt
3095.0	ss	3100.0	tt	3105.0	uu	3110.0	vv
3105.0	uu	3110.0	vv	3115.0	ww	3120.0	xx
3115.0	ww	3120.0	xx	3125.0	yy	3130.0	zz
3125.0	yy	3130.0	zz	3135.0	aa	3140.0	bb
3135.0	aa	3140.0	bb	3145.0	cc	3150.0	dd
3145.0	cc	3150.0	dd	3155.0	ee	3160.0	ff
3155.0	ee	3160.0	ff	3165.0	gg	3170.0	hh
3165.0	gg	3170.0	hh	3175.0	ii	3180.0	jj
3175.0	ii	3180.0	jj	3185.0	kk	3190.0	ll
3185.0	kk	3190.0	ll	3195.0	mm	3200.0	nn
3195.0	mm	3200.0	nn	3205.0	oo	3210.0	pp
3205.0	oo	3210.0	pp	3215.0	qq	3220.0	rr
3215.0	qq	3220.0	rr	3225.0	ss	3230.0	tt
3225.0	ss	3230.0	tt	3235.0	uu	3240.0	vv
3235.0	uu	3240.0	vv	3245.0	ww	3250.0	xx
3245.0	ww	3250.0	xx	3255.0	yy	3260.0	zz
3255.0	yy	3260.0	zz	3265.0	aa	3270.0	bb
3265.0	aa	3270.0	bb	3275.0	cc	3280.0	dd
3275.0	cc	3280.0	dd	3285.0	ee	3290.0	ff
3285.0	ee	3290.0	ff	3295.0	gg	3300.0	hh
3295.0	gg	3300.0	hh	3305.0	ii	3310.0	jj
3305.0	ii	3310.0	jj	3315.0	kk	3320.0	ll
3315.0	kk	3320.0	ll	3325.0	mm	3330.0	nn
3325.0	mm	3330.0	nn	3335.0	oo	3340.0	pp
3335.0	oo	3340.0	pp	3345.0	qq	3350.0	rr
3345.0	qq	3350.0	rr	3355.0	ss	3360.0	tt
3355.0	ss	3360.0	tt	3365.0	uu	3370.0	vv
3365.0	uu	3370.0	vv	3375.0	ww	3380.0	xx
3375.0	ww	3380.0	xx	3385.0	yy	3390.0	zz
3385.0	yy	3390.0	zz	3395.0	aa	3400.0	bb
3395.0	aa	3400.0	bb	3405.0	cc	3410.0	dd
3405.0	cc	3410.0	dd	3415.0	ee	3420.0	ff
3415.0	ee	3420.0	ff	3425.0	gg	3430.0	hh
3425.0	gg	3430.0	hh	3435.0	ii	3440.0	jj
3435.0	ii	3440.0	jj	3445.0	kk	3450.0	ll
3445.0	kk	3450.0	ll	3455.0	mm	3460.0	nn
3455.0	mm	3460.0	nn	3465.0	oo	3470.0	pp
3465.0	oo	3470.0	pp	3475.0	qq	3480.0	rr
3475.0	qq	3480.0	rr	3485.0	ss	3490.0	tt
3485.0	ss	3490.0	tt	3495.0	uu	3500.0	vv
3495.0	uu	3500.0	vv	3505.0	ww	3510.0	xx
3505.0	ww	3510.0	xx	3515.0	yy	3520.0	zz
3515.0	yy	3520.0	zz	3525.0	aa	3530.0	bb
3525.0	aa	3530.0	bb	3535.0	cc	3540.0	dd
3535.0	cc	3540.0	dd	3545.0	ee	3550.0	ff
3545.0	ee	3550.0	ff	3555.0	gg	3560.0	hh
3555.0	gg	3560.0	hh	3565.0	ii	3570.0	jj
3565.0	ii	3570.0	jj	3575.0	kk	3580.0	ll
3575.0	kk	3580.0	ll	3585.0	mm	3590.0	nn
3585.0	mm	3590.0	nn	3595.0	oo	3600.0	pp
3595.0	oo	3600.0	pp	3605.0	qq	3610.0	rr
3605.0	qq	3610.0	rr	3615.0	ss	3620.0	tt
3615.0	ss	3620.0	tt	3625.0	uu	3630.0	vv
3625.0	uu	3630.0	vv	3635.0	ww	3640.0	xx
3635.0	ww	3640.0	xx	3645.0	yy	3650.0	zz
3645.0	yy	3650.0	zz	3655.0	aa	3660.0	bb
3655.0	aa	3660.0	bb	3665.0	cc	3670.0	dd
3665.0	cc	3670.0	dd	3675.0	ee	3680.0	ff
3675.0	ee	3680.0	ff	3685.0	gg	3690.0	hh
3685.0	gg	3690.0	hh	3695.0	ii	3700.0	jj
3695.0	ii	3700.0	jj	3705.0	kk	3710.0	ll
3705.0	kk	3710.0	ll	3715.0	mm	3720.0	nn
3715.0	mm	3720.0	nn	3725.0	oo	3730.0	pp
3725.0	oo	3730.0	pp	3735.0	qq	3740.0	rr
3735.0	qq	3740.0	rr	3745.0	ss	3750.0	tt
3745.0	ss	3750.0	tt	3755.0	uu	3760.0	vv
3755.0	uu	3760.0	vv	3765.0	ww	3770.0	xx
3765.0	ww	3770.0	xx	3775.0	yy	3780.0	zz
3775.0	yy	3780.0	zz	3785.0	aa	3790.0	bb
3785.0	aa	3790.0	bb	3795.0	cc	3800.0	dd
3795.0	cc	3800.0	dd	3805.0	ee	3810.0	ff
3805.0	ee	3810.0	ff	3815.0	gg	3820.0	hh
3815.0	gg	3820.0	hh	3825.0	ii	3830.0	jj
3825.0	ii	3830.0	jj	3835.0	kk	3840.0	ll
3835.0	kk	3840.0	ll	3845.0	mm	3850.0	nn
3845.0	mm	3850.0	nn	3855.0	oo	3860.0	pp
3855.0	oo	3860.0	pp	3865.0	qq	3870.0	rr
3865.0	qq	3870.0	rr	3875.0	ss	3880.0	tt
3875.0	ss	3880.0	tt	3885.0	uu	3890.0	vv
3885.0	uu	3890.0	vv	3895.0	ww	3900.0	xx
3895.0	ww	3900.0	xx	3905.0	yy	3910.0	zz
3905.0	yy	3910.0	zz	3915.0	aa	3920.0	bb
3915.0	aa	3920.0	bb	3925.0	cc	3930.0	dd
3925.0	cc	3930.0	dd	3935.0	ee	3940.0	ff
3935.0	ee	3940.0	ff	3945.0	gg	3950.0	hh
3945.0	gg	3950.0	hh	3955.0	ii	3960.0	jj
3955.0	ii	3960.0	jj	3965.0	kk	3970.0	ll
3965.0	kk	3970.0	ll	3975.0	mm	3980.0	nn
3975.0	mm	3980.0	nn	3985.0	oo	3990.0	pp
3985.0	oo	3990.0	pp	3995.0	qq	4000.0	rr
3995.0	qq	4000.0	rr	4005.0	ss	4010.0	tt
4005.0	ss	4010.0	tt	4015.0	uu	4020.0	vv
4015.0	uu	4020.0	vv	4025.0	ww	4030.0	xx
4025.0	ww	4030.0	xx	4035.0	yy	4040.0	zz
4035.0	yy	4040.0	zz	4045.0	aa	4050.0	bb
4045.0	aa	4050.0	bb	4055.0	cc	4060.0	dd
4055.0	cc	4060.0	dd	4065.0	ee	4070.0	ff
4065.0	ee	4070.0	ff	4075.0	gg	4080.0	hh
4075.0	gg	4080.0	hh	4085.0	ii	4090.0	jj
4085.0	ii	4090.0	jj	4095.0	kk	4100.0	ll
4095.0	kk	4100.0	ll	4105.0	mm	4110.0	nn
4105.0	mm	4110.0	nn	4115.0	oo	4120.0	pp
4115.0	oo	4120.0	pp	4125.0	qq	4130.0	rr
4125.0	qq	4130.0	rr	4135.0	ss	4140.0	tt
4135.0	ss	4140.0	tt	4145.0	uu	4150.0	vv
4145.0	uu	4150.0	vv	4155.0	ww	4160.0	xx
4155.0	ww	4160.0	xx	4165.0	yy	4170.0	zz
4165.0	yy	4170.0	zz	4175.0	aa	4180.0	bb
4175.0	aa	4180.0	bb	4185.0	cc	4190.0	dd
4185.0	cc	4190.0	dd	4195.0	ee	4200.0	ff
4195.0	ee	4200.0	ff	4205.0	gg	4210.0	hh
4205.0	gg	4210.0	hh	4215.0	ii	4220.0	jj
4215.0	ii	4220.0	jj	4225.0	kk	4230.0	ll
4225.0	kk	4230.0	ll	4235.0	mm	4240.0	nn
4235.0	mm	4240.0	nn	4245.0	oo	4250.0	pp
4245.0	oo	4250.0	pp	4255.0	qq	4260.0	rr
4255.0	qq	4260.0	rr	4265.0	ss	4270.0	tt
4265.0	ss	4270.0	tt	4275.0	uu	4280.0	vv
4275.0	uu	4280.0	vv	4285.0	ww	4290.0	xx
4285.0	ww	4290.0	xx	4295.0	yy	4300.0	zz
4295.0	yy	4300.0	zz	4305.0	aa	4310.0	bb
4305.0	aa	4310.0	bb	4315.0	cc	4320.0	dd
4315.0	cc	4320.0	dd	4325.0	ee	4330.0	ff
4325.0	ee	4330.0	ff	4335.0	gg	4340.0	hh
4335.0	gg	4340.0	hh	4345.0	ii	4350.	

FROM - NORTH STATION
TO - HAYMARKET
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
38.5	1	56.224	46.5	4	57.511	130.0	1	56.245
152.5	1	56.185	165.0	1	56.237	185.0	1	56.202
191.0	1	56.187	200.0	4	57.515	299.5	4	57.675
302.5	4	57.307	314.0	1	56.190	315.0	4	57.623
323.0	1	56.147	354.0	4	56.364	752.5	4	57.323
877.5	4	57.610	881.5	4	57.370	899.0	4	57.257
903.0	4	56.278	904.5	4	57.265	916.5	4	57.448
938.0	4	57.251	947.0	4	57.346	948.0	4	57.278
952.5	4	57.377	960.0	4	56.791	990.0	4	57.398
996.5	4	57.359	1012.5	4	57.611	1053.5	4	57.376
1064.0	4	57.350	1076.5	4	57.444	1090.0	4	57.395
1899.5	4	57.555	2043.5	4	57.642	2070.5	4	57.704
760.183	6	57.715	761.5	4	57.452	764.5	1	57.440
546.216	1	57.471	547.311	4	57.345	547.711	4	57.345
2224.5	4	57.332	2225.0	4	57.345	2225.5	4	57.345
1751.0	4	57.325	1752.5	4	57.344	1753.5	4	57.344
1274.0	4	57.395	1275.0	4	57.344	1275.5	4	57.344
1295.0	4	57.434	1296.0	4	57.344	1296.5	4	57.344
3515.0	4	57.357	3516.0	4	57.344	3517.0	4	57.344
3855.0	4	57.776	3856.0	4	57.344	3857.0	4	57.344
3712.0	6	57.145	3713.0	6	58.580	3714.0	6	57.145
3726.0	5	57.701	3727.0	5	57.701	3728.0	5	57.701
3755.0	5	57.712						

Figure 29 North Station to Haymarket Data (cont'd)

FROM - NORTH STATION
TO - HAYMARKET
Grise

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCUPANCIES	TOTAL FT.
6	99.00	57.75	1.45	9	40.5
4	57.75	57.25	14.58	56	411.0
2	57.25	57.00	23.45	132	656.5
0	57.00	56.25	58.32	90	1633.0
1	56.25	56.00	0.89	14	25.9
3	56.00	-99.00	1.21	2	1.1

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1-2+4	1+	56.00	57.75	44.7%
0+1-2	3	56.00	56.25	33.2%
0+1	4	56.00	56.00	33.1%
5+3	BELOW STNDRD	56.00	57.00	2.5%

Figure 29 North Station to Haymarket Data (cont'd)



FROM - HAYMARKET
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
11.0	0	13.0	2	14.5	4	16.5	2
22.0	2	33.0	0	36.5	2	37.0	17.0
38.5	4	39.5	2	40.5	4	41.5	38.0
45.0	2	57.5	0	60.0	2	63.5	42.0
65.5	4	66.0	2	67.0	4	67.5	64.0
82.0	2	83.5	0	84.0	2	85.0	68.5
90.0	2	106.0	0	108.5	2	109.0	88.5
110.5	4	111.0	2	113.5	0	115.5	110.0
118.0	2	119.5	4	122.5	2	125.5	117.0
140.0	4	144.5	2	147.0	0	147.5	120.5
458.5	2	459.0	0	466.0	2	469.0	458.0
483.0	0	486.5	2	515.5	4	528.5	473.0
535.0	2	536.5	4	538.0	0	539.0	532.5
555.5	4	559.0	2	562.0	0	571.5	539.5
630.5	2	641.5	0	645.5	2	648.0	622.5
654.5	4	657.0	2	686.5	0	687.0	650.5
699.0	2	701.5	0	702.0	2	723.5	687.5
782.5	0	784.5	2	973.5	4	977.5	736.5
997.0	2	1016.5	4	1047.5	2	1061.5	933.0
1128.5	0	1131.0	1	1171.5	0	1183.0	934.0
1137.5	0	1138.0	2	1179.5	0	1184.0	1199.0
1302.5	2	1211.0	4	1270.5	2	1221.0	1194.0
1344.0	4	1255.5	2	1254.5	0	1265.0	1194.0
1376.5	2	1255.5	4	1255.0	2	1257.5	1194.0
1391.0	0	1301.5	1	1302.0	0	1303.5	1194.0
1303.5	1	1314.0	2	1308.0	0	1307.5	1194.0
1315.5	4	1316.0	2	1318.0	0	1319.5	1194.0
1321.0	4	1311.5	2	1322.5	0	1323.0	1194.0
1324.0	4	1315.0	0	1326.0	0	1328.0	1194.0

Figure 30 Haymarket to Government Center Data

FROM - HAYMARKET
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1330.0	1	1330.5	2	1331.5	1	1332.0	0
1335.5	0	1336.0	2	1336.5	0	1350.0	2
1362.5	0	1363.5	2	1425.5	0	1432.5	2
1449.0	2	1449.5	0	1475.5	0	1484.0	1
1499.0	0	1504.5	2	1519.0	1	1510.5	0
1512.0	2	1513.0	4	1520.0	2	1526.5	0
1531.0	0	1547.0	2	1544.0	4	1545.0	2
1549.5	2	1550.0	4	1550.5	5	1556.5	4
1583.5	3	1604.0	2	1605.0	4	1615.5	2
1618.0	6	1636.5	4	1655.0	2	1678.5	0
1641.5	4	1642.0	2	1652.0	4	1674.0	0
1701.5	1	1710.5	3	1724.5	5	1735.0	4
1735.5	4	1749.5	3	1750.5	4	1754.5	2
1764.0	6	1768.5	0	1773.5	2	1777.5	0

Figure 30 Haymarket to Government Center Data (cont'd)

FROM - HAYMARKET
TO - GOVERNMENT CENTER
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
14.5	4	57.349	37.0	4	57.256	38.5	4	57.262
40.5	4	57.350	63.5	4	57.352	65.5	4	57.315
67.0	4	57.297	68.5	4	57.297	88.5	4	57.366
109.0	4	57.269	110.5	4	57.264	117.0	4	57.292
119.5	4	57.330	123.5	4	57.260	140.0	4	57.304
469.0	4	57.323	515.5	4	57.639	587.5	4	57.319
536.5	4	57.269	539.0	4	57.270	595.5	4	57.306
632.5	4	57.686	644.5	4	57.400	747.0	4	56.782
1016.5	4	57.500	1041.5	4	57.640	1131.0	4	56.115
1134.0	1	56.147	1194.0	4	56.513	1211.0	4	56.317
1221.0	4	57.264	1241.0	4	57.435	1264.5	4	57.111
1265.0	4	57.264	1287.5	4	57.484	297.5	4	57.484
1301.5	1	56.238	1304.5	4	57.495	1303.5	4	56.115
1311.5	4	57.545	1324.5	6	56.825	1323.0	4	56.115
1321.0	4	57.276	1324.0	1	56.198	1330.0	4	56.115
1331.5	1	56.027	1334.5	1	56.110	1353.5	4	56.111
1438.5	4	57.340	1481.5	4	56.516	1510.0	4	56.111
1511.5	4	57.270	1517.0	4	56.275	1540.0	4	56.111
1547.5	4	57.277	1550.0	4	57.365	1556.5	4	56.114
1581.5	4	57.617	1601.0	4	56.278	1612.5	4	56.119
1631.5	4	57.451	1641.5	4	56.305	1659.5	4	56.118
1673.5	4	57.326	1711.5	4	56.315	1723.0	4	56.117
1746.5	4	57.391	1751.5	4	56.296	1777.0	4	56.117
1777.5	4	57.354						

Figure 30 Haymarket to Government Center Data (cont'd)

		FROM - HAYMARKET			TO - GOVERNMENT CENTER		
		Fringe			Fringe		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.		
6	99.00	57.75	0.06	1		1.0	
4	57.75	57.25	21.25	60		382.5	
2	57.25	57.00	26.31	95		473.5	
0	57.00	56.25	51.50	47		927.0	
1	56.25	56.00	0.89	11		16.0	
3	56.00	-59.00	0.00	1		1.0	
ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL			
0+1+2+4	1+2	56.00	57.75	99.94			
0+1+2	3	56.00	57.25	78.69			
0+1	4	56.00	57.00	72.73			
6+3	BELOW STNDRD	56.00	57.75	0.05			

Figure 30 Haymarket to Government Center Data (cont'd)

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3.5	0	4.0	1	13.5	0	14.0	2
30.5	2	47.0	4	47.5	2	48.0	4
50.0	4	50.5	2	59.0	4	79.5	6
103.5	2	112.5	4	113.0	2	114.0	4
133.5	4	143.0	2	143.5	4	144.0	2
148.0	2	150.0	0	150.5	4	151.0	2
152.0	2	152.5	1	156.0	0	156.5	2
163.5	4	164.0	2	166.0	0	167.5	4
169.0	4	169.5	2	171.5	0	172.0	2
176.0	1	177.5	0	178.0	1	178.5	2
180.0	0	182.5	1	183.0	0	184.0	2
186.0	1	190.0	0	190.5	1	196.0	0
198.0	2	201.5	1	210.5	0	211.5	2
280.5	2	286.5	4	321.5	2	328.5	4
346.0	0	352.5	2	358.0	4	358.5	2
360.0	2	361.0	4	361.0	2	376.5	0
382.0	0	390.0	2	392.0	4	393.0	2
396.5	2	397.5	4	398.5	2	405.0	4
420.0	4	430.5	2	431.5	4	452.0	2
457.5	2	459.0	4	459.5	2	460.5	4
485.0	4	487.0	0	489.5	4	490.0	0
522.0	2	536.5	4	543.5	2	553.5	4
571.0	4	577.5	2	597.5	4	598.0	2
602.5	2	605.0	4	612.0	2	616.5	0
625.5	4	671.5	2	697.0	0	729.0	2
770.5	2	826.5	0	830.0	2	833.5	0
837.0	0	852.0	2	960.0	4	970.0	2
985.5	2	1047.0	0	1057.5	2	1152.0	0
1166.0	0	1170.5	2	1212.0	0	1213.0	2

Figure 31 Government Center to Park Data

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1218.0	2	1241.5	4	1247.0	2	1247.5	0
1250.5	0	1254.5	2	1255.0	0	1255.5	2
1262.0	1	1262.5	0	1263.0	2	1264.0	0
1265.5	0	1280.5	2	1295.0	0	1304.0	2
1305.0	2	1306.0	0	1307.0	2	1307.5	0
1327.0	0	1332.0	2	1340.0	4	1353.5	2
1360.0	2	1363.5	0	1365.5	2	1366.0	0
1402.0	0	1404.5	2	1408.5	0	1410.5	2
1411.5	1	1415.5	0	1417.5	2	1418.0	1
1432.5	2	1450.0	0	1465.0	4	1466.0	0
1471.0	0	1474.0	2	1489.5	4	1500.5	2
1516.5	2	1517.0	0	1519.5	2	1523.0	0
1532.5	0	1535.0	2	1535.5	0	1537.5	2
1539.5	2	1544.0	0	1546.0	2	1547.0	0
1550.5	0	1551.0	2	1551.5	0	1552.0	2
1554.5	2	1555.0	0	1555.5	2	1556.0	0
1565.5	0	1566.0	2	1573.0	0	1580.0	2
1596.0	2	1599.0	4	1610.5	0	1611.0	0
1625.5	4	1626.0	2	1627.5	4	1631.0	2
1641.0	1	1642.0	1	1651.0	0	1651.5	1
1652.5	1	1656.0	0	1666.0	0	1676.5	4
1700.0	0	1700.5	1	1707.5	0	1708.0	4
1711.0	1	1713.5	2	1714.5	2	1715.5	2
1722.0	4	1722.5	4	1723.0	4	1723.5	4
1727.5	2	1728.0	2	1744.0	4	1744.5	2
1746.5	1	1776.0	4	1780.0	0	1780.5	0
1782.5	1	1783.5	4	1785.0	4	1785.5	4
1789.0	4	1789.5	4	1790.0	0	1797.0	0
1809.5	0	1809.5	2	1843.0	0	1847.5	2

Figure 31 Government Center to Park Data (cont'd)

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1851.0	1	2108.5	0	2128.0	2	2145.0	0
2191.5	0	2193.0	1	2207.5	0	2209.5	0
2315.0	1	2317.5	0	2333.0	2	2344.0	0
2366.0	0	2369.0	1	2371.0	0	2372.0	2
2378.0	2	2379.0	0	2380.0	4	2380.5	5
2383.0	0	2383.5	1	2394.0	0	2397.0	2
2391.5	2	2392.0	1	2392.5	6	2393.5	4
2396.5	1	2397.0	0	2398.0	1	2399.0	0

Figure 31 Government Center to Park Data (cont'd)

FROM - GOVERNMENT CENTER
TO - PARK
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
4.0	1	56.205	47.0	4	57.511	48.0	4	57.259			
50.0	4	57.250	59.0	4	57.357	92.0	4	57.425			
112.5	4	57.439	114.0	4	57.362	137.5	4	57.385			
143.5	4	57.252	145.5	4	57.258	150.5	4	57.462			
151.5	1	56.194	152.5	1	56.216	163.5	4	57.515			
160.5	6	57.921	176.0	1	56.188	178.0	1	56.191			
179.5	1	56.055	182.5	1	56.114	186.0	1	56.221			
190.5	1	56.240	196.5	4	57.285	201.5	1	56.112			
286.5	4	57.339	338.5	4	57.545	358.0	4	57.337			
359.5	4	57.269	361.0	4	57.267	392.0	4	57.376			
393.5	4	57.272	397.5	4	57.261	405.0	4	57.471			
420.0	4	57.406	431.5	4	57.625	457.0	4	57.718			
459.0	4	57.292	460.5	4	57.275	485.0	4	57.449			
489.5	4	57.306	507.5	4	57.354	526.5	4	57.326			
559.5	4	57.315	571.0	4	57.291	593.5	4	57.390			
598.5	4	57.256	605.0	4	57.269	625.5	4	57.354			
960.0	4	57.610	972.0	4	57.359	1212.0	4	57.413			
1213.5	4	57.253	1241.5	4	57.615	1362.0	1	56.164			
1309.0	1	56.138	1360.0	4	57.357	1378.0	4	57.382			
1411.5	1	56.237	1411.0	1	56.231	1439.5	4	57.499			
1514.5	4	57.713	1578.0	4	57.391	1635.5	4	57.479			
1617.5	4	57.507	1640.0	4	57.372	1642.0	1	56.147			
1651.5	1	56.127	1693.5	1	57.446	1676.5	1	57.394			
1700.5	1	56.134	1708.0	1	57.405	1711.0	4	57.470			
1714.5	4	57.284	1718.0	4	57.358	1727.5	4	57.474			
1727.5	4	57.375	1757.0	4	57.357	1744.0	4	57.474			
1746.0	4	57.298	1783.0	4	57.169	1785.5	5	57.445			
1785.5	4	57.417	1787.5	1	56.242	1789.5	4	57.370			
1798.5	1	56.173	1801.0	1	56.137	2197.0	1	56.076			

Figure 31 Government Center to Park Data (cont'd)

Figure 31 Government Center to Park Data (cont'd)

FROM - GOVERNMENT CENTER TO - PARK GRADE				FROM - GOVERNMENT CENTER TO - PARK GRADE			
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE
2308.0	1	56.240	2315.0	1	56.138	2369.0	1
2375.0	4	57.514	2380.5	6	57.759	2383.5	1
2388.5	4	57.366	2392.5	6	57.894	2396.5	1
2398.0	1	56.134					

Figure 31 Government Center to Park Data (cont'd)

FROM - GOVERNMENT CENTER TO - PARK GSE					
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.15	4	3.5
4	57.75	57.25	21.48	72	515.5
2	57.25	57.00	29.83	131	716.0
0	57.00	56.25	46.85	93	1124.5
1	56.25	56.00	1.69	29	40.5
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.85
0+1+2	3	55.00	57.25	78.37
0+1	4	55.00	57.00	48.51
6+3	BELOW STNDRD	56.00	57.75	0.15

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FROM - PARK TO - BOYLSTON GAGE		FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
6.0	0	9.5	4	20.5	2	21.5	0	33.0	2
36.0	4	35.5	2	37.5	4	41.5	2	50.5	4
51.0	2	51.5	0	52.0	1	61.0	0	63.0	1
66.0	0	76.0	2	87.0	4	103.5	2	104.0	0
66.0	1	111.5	2	112.5	4	113.0	2	115.0	4
104.5	1	118.0	4	119.0	2	120.0	4	127.0	2
117.5	2	128.5	2	148.0	4	149.5	2	176.5	4
127.5	4	181.0	1	182.0	4	187.5	6	184.0	4
181.0	2	186.5	2	187.0	4	187.5	1	190.0	0
186.0	0	190.5	2	199.5	1	206.5	0	210.5	2
190.5	2	197.0	0	199.5	1	206.5	0	210.5	2
244.0	0	248.0	2	239.5	0	239.5	1	478.5	0
479.0	1	509.5	0	536.5	2	546.5	0	553.0	2
594.0	1	594.0	1	708.5	0	718.0	1	718.5	0
599.0	0	722.0	2	733.5	2	750.0	0	755.0	2
722.0	2	770.0	1	772.0	0	772.5	2	776.0	4
766.0	0	779.0	2	782.0	4	784.5	1	785.0	0
779.0	2	789.5	4	792.0	2	793.0	0	793.5	6
787.5	2	795.0	2	795.5	0	797.0	1	797.5	0
794.5	4	798.0	3	799.0	0	799.5	1	800.0	0
798.0	3	802.0	1	803.0	6	803.5	2	805.5	4
802.0	1	806.0	4	807.0	0	808.0	2	810.0	0
806.0	2	812.0	4	812.5	6	813.0	4	815.5	6
811.5	6	816.0	4	816.5	2	817.5	4	823.0	0
816.0	4	824.5	2	827.0	0	837.5	2	828.5	4
843.5	0	845.0	2	845.0	4	838.5	4	865.0	4
863.5	6	871.0	4	873.0	2	942.5	0	948.0	2
958.0	0	962.5	2	1045.0	0	1061.5	2	1070.5	0
1075.0	2	1076.5	0	1085.5	2	1089.0	2	1099.0	0
1115.0	0	1122.5	2	1153.0	0	1154.0	0	1278.0	0

Figure 32 Park to Boylston Data

FROM - PARK
TO - BOYLSTON
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1278.5	1	1464.5	0	1465.5	2	1471.0	0
1492.5	4	1493.0	2	1503.5	1	1508.5	2
1511.0	2	1511.5	4	1517.0	2	1513.5	4
1518.0	4	1509.0	2	1531.5	0	1546.5	2
1564.0	0	1564.5	0	1568.0	0	1575.5	0
1576.5	2	1577.0	6	1578.0	0	1579.5	0
1581.0	0	1581.5	2	1583.5	0	1590.0	1
1597.5	2	1702.0	0	1704.5	2	1721.0	1
1733.5	0	1740.0	1	1741.5	0	1754.5	2
1800.0	2	1800.5	1	1801.5	0	1820.0	2
1864.5	2	1871.5	4	1922.5	2	1935.5	4

Figure 32 Park to Boylston Data (cont'd)

FROM - PARK TO - BOYLSTON GAGE				FEET				FEET			
	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
9.5	4	57.625	36.0	4	57.358	37.5	4	57.481	37.5	4	57.481
50.5	4	57.371	52.0	1	56.135	63.0	1	56.049	63.0	1	56.049
87.0	4	57.561	104.5	1	56.071	112.5	4	57.279	112.5	4	57.279
115.0	4	57.489	118.0	4	57.255	120.0	4	57.271	120.0	4	57.271
127.5	4	57.259	148.0	4	57.440	176.5	4	57.673	176.5	4	57.673
181.5	1	56.222	183.5	5	57.945	187.0	4	57.267	187.0	4	57.267
187.5	1	56.213	199.5	1	56.109	251.5	1	56.082	251.5	1	56.082
479.0	1	56.073	594.0	1	56.056	716.0	1	56.101	716.0	1	56.101
770.0	1	56.084	776.0	4	57.531	782.0	4	57.746	782.0	4	57.746
784.5	1	56.162	789.5	4	57.335	793.5	6	57.948	793.5	6	57.948
797.0	1	56.091	798.0	3	55.944	799.5	1	56.134	799.5	1	56.134
802.0	1	56.074	803.0	6	57.942	805.5	4	57.642	805.5	4	57.642
806.5	4	57.291	811.5	6	58.145	812.5	6	57.793	812.5	6	57.793
813.5	6	57.839	817.5	4	57.316	828.5	4	57.279	828.5	4	57.279
850.0	6	57.189	863.5	6	57.819	1088.0	4	57.282	1088.0	4	57.282
1228.5	1	56.248	1492.5	4	57.569	1500.5	4	57.384	1500.5	4	57.384
1509.5	4	57.290	1511.5	4	57.287	1515.5	4	57.273	1515.5	4	57.273
1518.0	4	57.421	1576.0	1	56.044	1517.0	6	57.901	1517.0	6	57.901
1580.0	1	56.193	1590.0	1	56.047	1221.0	4	57.593	1221.0	4	57.593
1800.5	1	56.230	1838.0	4	57.506	1371.5	4	57.331	1371.5	4	57.331
1935.5	4	57.276									

Figure 32 Park to Boylston Data (cont'd)

FROM - PARK:		TO - BOYLSTON		GAGE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCUPANCIES	TOTAL FT.
6	99.00	57.75	0.38	9	7.5
4	57.75	57.25	10.32	41	206.5
2	57.25	57.00	21.80	70	436.0
0	57.00	56.25	65.62	58	1312.5
1	56.25	56.00	1.85	21	37.0
3	56.00	-99.00	0.03	1	0.15

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	59.60
0+1+2	3	56.00	57.25	39.37
0+1	4	56.00	57.09	77.47
6+3	BELOW STRFD	56.00	57.75	0.40

Figure 32 Park to Boylston Data (cont'd)

FROM - BOYLSTON
TO - ARLINGTON
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
5.5	1	9.0	2	11.0	2	13.5	0
39.5	0	44.5	2	56.5	0	59.5	1
62.5	2	65.5	4	68.5	2	69.5	0
72.5	0	74.5	1	75.0	0	77.5	2
82.0	2	82.5	0	83.0	6	84.0	4
82.0	2	85.0	0	88.5	1	91.5	1
92.5	6	93.5	4	94.0	2	96.0	4
97.0	2	99.5	0	101.0	6	101.5	4
102.5	4	103.0	6	105.5	4	106.5	2
109.0	2	112.5	0	113.5	2	114.0	0
116.5	0	117.0	2	117.5	0	118.0	4
133.5	0	135.0	2	138.0	4	138.5	6
153.0	6	160.5	4	162.5	2	162.0	0
235.5	0	237.0	2	248.0	0	252.0	2
351.0	2	360.5	0	364.5	2	366.0	0
377.5	4	388.5	2	405.0	0	412.0	2
568.0	1	754.0	0	755.0	2	760.5	0
761.5	0	764.0	2	782.0	4	782.5	0
786.5	2	791.5	4	797.0	2	798.0	4
800.5	4	802.0	2	815.0	4	801.5	2
811.0	2	811.5	4	819.5	2	821.0	0
852.5	0	853.5	2	854.0	0	853.5	2
865.5	1	866.0	6	866.5	4	867.5	2
868.5	2	869.0	1	870.0	0	871.0	2
872.5	0	879.0	1	884.5	0	887.0	2
994.0	2	1010.0	4	1013.0	1	1023.0	0
1051.5	0	1089.5	2	1090.5	0	1109.5	2
1153.5	2	1161.0	4	1218.5	2	1220.0	4
1357.0	0	1361.0	0	1659.5	0	1670.0	0

Figure 33 Boylston to Arlington Data

FRONT - MELSTON
TO - TOW

卷之三

Figure 33 Boylston to Arlington Data (cont'd)

Figure 33 Boylston to Arlington Data (cont'd)

FROM - BOYLSTON TO - ARLINGTON GAGE				FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
5.5	1	56.077	59.5	1	56.073	65.5	4	57.507				
71.5	4	57.749	74.5	1	56.138	79.0	4	57.335				
83.0	6	57.924	88.5	1	56.035	91.5	1	56.064				
92.5	6	57.972	96.0	4	57.604	101.0	5	58.068				
102.0	6	57.819	103.0	6	57.837	107.0	4	57.380				
118.0	4	57.256	139.5	6	57.782	153.0	6	57.785				
377.5	4	57.276	568.0	1	56.202	782.0	4	57.563				
786.0	4	57.342	791.5	4	57.360	798.0	4	57.267				
800.5	4	57.270	803.0	4	57.277	807.5	4	57.414				
811.5	4	57.252	866.0	6	57.925	868.0	1	56.129				
869.0	1	56.171	871.5	1	56.184	879.0	1	56.075				
1010.0	4	57.597	1127.5	4	57.584	1161.0	4	57.334				
1222.0	4	57.275	1361.0	1	56.027	1632.5	4	57.262				
1697.0	4	57.256	1737.0	1	56.247	1841.0	1	56.246				
1846.5	1	56.136	1863.5	1	56.187	1869.5	6	57.999				
1871.5	4	57.307	1875.5	1	56.077	1885.5	1	56.229				
1896.5	1	56.127	1989.0	1	56.077	2193.0	1	56.149				
3004.0	4	57.279	3543.5	4	57.311	3545.5	4	57.253				

Figure 33 Boylston to Arlington Data (cont'd)

FROM - BOYLSTON TO - ARLINGTON GAUGE						
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.	
6	99.00	57.75	0.18	9	6.5	
4	57.75	57.25	3.67	36	132.0	
2	57.25	57.00	16.32	110	587.5	
0	57.00	56.25	78.49	100	2825.5	
1	56.25	56.00	1.35	21	48.5	
3	56.00	-99.00	0.01	0	0.01	

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.82
0+1+2	3	56.00	57.25	96.15
0+1	4	56.00	57.00	79.83
6+5	BELOW STANDP	56.00	57.75	0.18

FROM - ARLINGTON
TO - COPLEY
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
83.0	0	84.5	2	387.5	0	392.0	2
400.0	2	434.0	0	410.0	2	515.0	0
591.0	0	600.0	2	610.5	0	624.0	2
644.0	2	648.0	0	666.0	4	674.5	0
693.0	0	700.5	2	705.5	0	710.0	2
728.5	2	752.0	0	761.5	2	850.0	0
894.0	0	903.0	2	929.0	0	932.0	2
935.5	2	936.0	4	944.5	2	1002.0	0
1001.5	0	1010.0	2	1011.0	0	1011.5	0
1062.5	2	2388.5	0	2325.0	2	2235.0	4
2240.5	0						

Figure 34 Arlington to Copley Data

Figure 34 Arlington to Copley Data (cont'd)

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
394.0	4	57.278	934.0	4	57.317	936.0	4	57.262
2235.0	4	57.417						

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FROM - ARLINGTON
TO - COPLEY
GAGE

		FROM - ARLINGTON		TO - COPLEY		GATE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.		
6	99.00	57.75	0.00	0	0.0		
4	57.75	57.25	0.50	4	14.5		
2	57.25	57.00	7.31	26	175.5		
0	57.00	56.25	92.08	22	2218.0		
1	56.25	56.00	0.00	0	0.0		
3	56.00	-99.00	0.00	0	0.0		
ZONES	IPT CLASS	TIGHT	WIDE	% OF TOTAL			
0+1+2+4	1+2	56.00	57.75	100.00			
0+1+2	3	56.00	57.25	99.40			
0+1	4	56.00	57.00	92.08			
6+3	BELOW STNDRD	56.00	57.75	0.00			

Figure 34 Arlington to Copley Data (cont'd)



FROM - COPLEY
TO - AUDITORIUM
GAGE

	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	
964.0	0	981.0	2	990.5	4	994.5	2	996.5	0
1002.5	2	1253.0	0	1261.5	2	1295.0	0	1295.5	1
1363.0	0	1366.5	2	1533.0	0	1556.0	2	1587.0	0
1587.5	2	1588.0	4	1599.5	2	1590.0	4	1598.0	2
1612.5	0	1623.5	2	1655.0	4	1627.0	2	1911.0	0
1914.0	1	2162.0	0	2162.5	1	2418.5	0	2424.0	0
2515.0	0	2516.5	1	2674.5	0	2675.0	1	2989.0	0
2998.0	2	3016.5	0	3017.5	2	3044.0	0	3051.5	2
3052.0	0	3052.5	2	3035.0	0	3053.5	2	3097.5	0
3107.0	2	3117.5	0	3131.5	3	3140.5	4	3144.5	2
3162.0	0	3196.5	2	3197.0	4	3197.5	2	3204.0	4
3204.5	2	3205.0	4	3214.0	2	3214.5	4	3227.5	2
3231.0	4	3236.5	2	3241.0	0	3267.5	2	3284.5	4
3305.0	2	3358.0	4	3356.0	2	3369.5	4	3377.0	2
3383.0	4	3388.0	2	3387.5	0	3881.0	2	3881.5	0
3887.5	1	3899.0	0	3897.5	2	3693.5	0	3302.5	4
3903.0	0	3907.0	2	3908.0	0	3908.5	0	3940.5	0
3911.5	1	3912.0	0	3913.5	2	3916.0	0	3923.5	1
3924.0	0	3927.0	2	3930.5	0	3927.0	1	3934.5	0
3944.5	1	3950.0	0	3952.0	1	4169.5	0	4173.5	1
4517.0	0	4517.5	1						

Figure 35 Copley to Auditorium Data

FROM - COPLEY
TO - AUDITORIUM
GAGE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
990.5	4	57.412	1227.5	1	56.309	1528.0	4	57.300
1590.0	4	57.312	1655.0	4	57.284	1914.0	1	56.174
2162.5	1	56.203	2515.5	1	56.317	2275.0	1	56.193
3140.5	4	57.340	3171.4	4	57.311	3144.0	4	57.314
3205.0	4	57.357	3214.5	4	57.254	3231.0	1	57.261
3284.5	4	57.360	3258.4	4	57.307	3284.5	4	57.307
3383.0	4	57.356	3397.5	1	56.146	3402.5	1	56.162
3908.5	1	56.201	3911.5	1	56.237	3433.5	1	56.140
3929.0	1	56.204	3944.5	1	56.177	3502.0	1	57.167
4173.5	1	56.064	4517.5	1	56.147			

Figure 35 Copley to Auditorium Data (cont'd)

PAGE C : 1

		FROM - COBLEY		TO - AUDITORIUM	
		GATE		GATE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	2.52	14	116.0
2	57.25	57.00	5.80	36	267.0
0	57.00	56.25	90.76	37	4175.0
1	56.25	56.00	0.91	15	42.0
3	56.00	-99.00	0.00	0	0.0

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	97.48
0+1	4	56.00	57.00	91.67
6+3	BELOW STNDPT	56.00	57.75	0.00

Figure 35 Copley to Auditorium Data (cont'd)



FROM - AUDITORIUM
TO - KENMORE
GRADE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
12.0	.2	14.0	.4	21.0	2	26.0	0
69.0	4	84.0	2	84.5	0	90.0	2
151.5	2	153.0	14	153.5	2	154.0	4
167.5	4	172.5	2	656.5	0	665.5	0
672.5	1	673.0	2	674.0	0	674.5	2
678.0	2	679.0	0	679.5	1	683.0	0
688.0	0	691.0	2	693.0	0	693.5	1
696.5	1	697.0	0	697.5	2	700.5	0
709.0	0	712.0	2	713.5	0	714.0	1
716.0	1	719.0	0	729.5	1	734.5	0
954.5	0	958.0	1	1302.0	0	1302.5	1
1440.0	2	1452.0	4	1460.0	2	1479.0	0
1492.5	4	1495.5	2	1506.0	4	1510.5	2
1514.0	2	1521.5	0	1522.5	2	1523.0	0
1572.5	0	1577.0	2	1580.0	4	1596.0	2
1620.5	2	1622.0	4	1629.5	2	1637.0	4
1654.0	0	1677.5	2	1686.0	4	1690.0	2
1702.0	2	1712.5	4	1719.0	2	1719.5	4
1721.5	4	1735.5	2	1738.0	4	1747.0	2
1770.5	2	1976.0	0	1980.0	1	1980.5	3
2010.5	1	2018.0	0	2018.5	1	2019.0	0
2098.0	0	2098.5	2	2104.5	0	2116.5	1
2125.0	2	2126.5	0	2131.5	1	2153.0	0
2178.5	0	2180.5	1	2209.0	0	2208.5	1
2214.0	1	2218.5	0	2225.5	0	2231.0	0
2249.5	0	2252.0	1	2257.5	0	2260.0	1
2279.5	1	2283.5	0	2291.5	1	2309.5	0
2342.0	0	2343.5	1	2344.0	2	2344.5	3
2346.0	4	2346.5	6	2355.0	4	2356.0	5

Figure 36 Auditorium to Kenmore Data

FROM - AUDITORIUM
TO - KENMORE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
2361.0	2	2366.5	0	2375.0	2	2376.0	4
2382.0	4	2382.5	2	2383.0	0	2383.5	2
2391.0	2	2443.0	0	2445.0	2	2446.0	1
2447.0	0	2447.5	1	2448.5	0	2462.5	1
2463.5	0	2466.5	1	2467.5	4	2468.5	0
2473.5	0	2479.0	1	2480.0	0	2482.5	1
2486.0	2	2491.0	0	2495.5	1	2514.0	0
2521.5	4	2525.0	2	2525.5	0	2526.0	1
2527.5	4	2528.0	2	2529.5	1	2529.5	2
2536.5	2	2545.0	4	2546.5	1	2557.5	0
2557.5	0	2558.0	4	2559.0	6	2559.5	4
2561.0	2	2562.5	0	2563.5	2	2564.0	0
2568.0	0	2568.5	1	2569.0	0	2570.0	4
2571.5	4	2572.5	0	2573.0	2	2573.5	4
2575.0	4	2576.0	6	2577.0	2	2577.5	4
2579.0	0	2579.5	4	2580.0	2	2580.5	0
2596.5	0	2598.0	2	2600.5	0	2601.5	1
2896.5	1	2897.0	0	2898.5	4	2899.0	0
2900.5	0	2904.5	1	2909.0	0	2909.5	1
2928.5	1	2933.5	0	2935.5	1	2938.0	0
2989.0	0	2992.0	2	3072.0	0	3072.5	2

Figure 36 Auditorium to Kenmore Data (cont'd)

FROM - AUDITORIUM
TO - KENMORE
GATE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
14.0	4	57.285	69.0	4	57.346	142.5	4	57.474
153.0	4	57.257	154.0	4	57.250	167.5	4	57.340
672.5	1	56.107	679.5	1	56.229	687.5	1	56.155
69.5	1	56.250	696.5	1	56.237	708.5	1	56.130
714.0	1	56.231	716.0	1	56.245	729.5	1	56.119
737.0	1	56.021	958.0	1	56.013	1302.5	1	56.119
145.0	4	57.183	1492.5	4	57.273	1506.0	4	57.411
1580.0	4	57.382	1606.0	4	57.368	1622.0	4	57.269
1637.0	4	57.332	1686.0	4	57.480	1712.5	4	57.310
1719.5	4	57.255	1721.5	4	57.257	1738.0	4	57.278
1980.0	1	56.151	2010.5	1	56.085	2058.5	1	56.078
2097.0	1	56.077	2116.5	1	56.076	2131.5	1	56.074
2155.5	1	56.130	2180.5	1	56.077	2208.5	1	56.078
2214.0	1	56.049	2225.5	1	56.078	2247.5	1	56.073
2252.0	1	56.079	2260.0	1	56.078	2275.5	1	56.051
2291.5	1	56.081	2311.0	1	56.077	2343.0	1	56.124
2345.5	6	57.797	2346.5	6	57.773	2356.5	4	57.257
2376.0	4	57.292	2382.0	4	57.569	2345.0	1	56.206
2446.5	4	57.379	2447.5	1	56.226	2462.5	1	56.173
2461.5	1	56.111	2477.5	4	57.546	2479.0	1	56.071
2482.5	1	56.203	2495.5	1	56.077	2521.5	4	57.130
2520.0	1	56.176	2537.5	4	57.745	2523.5	1	56.167
2545.0	4	57.606	2553.0	6	57.961	2568.5	1	56.073
2570.0	4	57.724	2571.5	4	57.287	2574.5	5	58.109
2577.0	6	57.786	2577.5	4	57.271	2579.5	4	57.136
2601.5	1	56.020	2656.5	1	56.136	2686.5	4	57.052
2893.5	1	56.073	2914.5	1	56.040	2900.5	1	56.073
2928.5	1	56.058	2955.5	1	56.031	2945.5	1	56.062

Figure 36 Auditorium to Kenmore Data (cont'd)

		FROM - AUDITORIUM			TO - KENMORE		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.		
6	99.00	57.75	0.14	5	4.5		
4	57.75	57.25	5.84	38	187.0		
2	57.25	57.00	12.08	70	386.5		
0	57.00	56.25	75.03	88	2401.0		
1	56.25	56.00	6.91	48	221.0		
3	56.00	-99.00	0.00	0	0.0		

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.86
0+1+2	3	56.00	57.25	94.02
0+1	4	56.00	57.00	81.94
6+3	BELOW STNDRD	56.00	57.75	0.14

Figure 36 Auditorium to Kenmore Data (cont'd)

FROM - KENMORE
TO - FENWAY
GRADE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
18.5	0	21.5	1	179.5	0	192.0	1
217.0	2	232.0	0	233.0	2	234.0	4
236.0	0	240.5	2	241.0	0	245.5	2
557.5	6	560.0	4	560.5	0	561.0	1
562.5	4	563.5	0	564.0	1	576.5	0
581.5	0	588.5	1	598.5	0	604.0	1
2066.0	2	2066.5	0	2067.0	4	2068.0	6
2069.0	4	2070.5	2	2094.5	0	2098.0	1
2110.5	2	2111.0	4	2111.5	2	2132.5	0
2133.5	4	2134.0	6	2135.5	0	2137.0	1
2139.0	1	2140.0	0	2140.5	1	2141.0	0
2155.0	0	2156.0	2	2164.5	0	2166.0	1
2168.5	4	2169.0	2	2172.0	0	2172.5	4
2176.0	0	2178.5	2	2181.0	0	2185.0	1
2262.0	1	2272.0	0	2274.5	1	2276.0	0
2278.5	0	2299.5	2	2283.0	0	2305.5	1
2314.5	1	2317.0	0	2327.5	1	2354.5	0
2773.0	0	2774.0	2	2772.5	0	2778.5	2
2784.0	2	2803.5	0	2804.0	1	2807.0	1
3185.0	0	3186.0	2	3194.5	0	3195.0	2
3199.5	2	3349.5	0	3350.0	2	3352.5	0
3456.0	0	3457.0	2	3522.5	0	3523.0	2

Figure 37 Kenmore to Fenway Park Data

FROM - KENMORE
TO - FENWELL,
GAZE

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
21.5	1	56.108	182.0	1	56.181	234.0	4	56.356
557.5	6	56.290	561.0	1	56.221	562.5	4	56.360
564.0	1	56.196	579.0	1	56.095	565.5	1	56.091
604.0	1	56.096	2068.0	6	56.315	2050.0	4	56.345
2098.0	1	56.183	2111.0	4	56.488	2135.0	1	56.186
2134.0	6	56.180	2157.0	1	56.125	2130.0	1	56.187
2140.5	1	56.113	2152.0	1	56.092	2165.0	1	56.124
2168.5	4	56.489	2172.5	4	56.412	2185.0	1	56.412
2262.0	1	56.106	2274.5	1	56.094	2275.5	1	56.096
2305.5	1	56.102	2314.5	1	56.079	2315.5	1	56.101
2366.0	1	56.096	3004.0	1	56.244	3005.0	1	56.191

Figure 37 Kenmore to Fenway Park Data (cont'd)

		FROM - KENMORE			TO - FENWAY		
		Gates			Gates		
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.		
6	99.00	57.75	0.05	3	2,0		
4	57.75	57.25	0.21	9	8.0		
2	57.25	57.00	0.86	25	32.5		
0	57.00	56.25	96.20	48	3655.5		
1	56.25	56.00	2.68	24	102.0		
3	56.00	-99.00	0.00	0	0.0		

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	99.95
0+1+2	3	56.00	57.25	99.74
0+1	4	56.00	57.00	98.88
6+3	BELT W. TIGHT	56.00	57.00	0.11

Figure 37 Kenmore to Fenway Park Data (cont'd)



FROM - FENWAY
TO - LONGWOOD
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
3.0	0	3.5	2	4.0	4	4.5	2
26.0	1	26.5	6	27.0	4	28.5	0
31.5	0	32.0	1	33.0	0	45.0	1
49.0	2	57.5	0	59.0	1	60.0	0
64.5	0	65.0	2	65.5	4	68.5	0
74.0	0	76.0	1	152.0	0	155.0	1
167.0	1	169.0	0	169.5	1	171.5	0
173.0	0	173.5	1	173.5	0	178.0	1
198.0	1	199.5	0	207.5	1	210.0	0
247.5	0	259.0	1	665.0	0	667.0	2
671.5	2	675.0	0	677.0	2	896.5	0
897.5	0	898.0	1	1078.0	0	1078.5	2
1088.0	2	1242.0	0	1245.0	2	1359.0	0
1415.5	0	1416.0	2	1606.0	0	1606.5	2
2460.0	1	2647.5	0	2647.5	0	2649.5	0
3137.0	0	3200.5	1	3201.0	0	3201.5	1
3204.0	1	3207.0	0	3208.0	1	3208.5	0
3249.5	0	3250.5	1	3251.0	0	3251.5	1
3290.5	2	3370.5	0	3384.0	2	3384.5	0
3564.5	0	3565.5	2	3568.5	0	3567.5	2
3753.5	2	3754.5	4	3755.0	2	3757.0	0
3802.0	0	3804.0	2	3820.5	0	3840.5	2
3811.5	2	3812.0	0	3812.5	2	3833.0	0
3834.0	0	3838.0	2	3839.0	0	3839.5	2
4135.5	1	4524.5	0	4524.5	0	4524.5	0

Figure 38 Fenway Park to Longwood Data

Figure 38 Fenway Park to Longwood Data (cont'd)

FROM - FENWAY TO - LONGWOOD GAGE				FROM - FENWAY TO - LONGWOOD GAGE			
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE
4.0	4	57.548	26.5	6	57.794	30.0	1
32.0	1	56.163	45.0	1	56.094	59.0	1
61.5	4	57.498	65.5	4	57.284	76.0	1
155.0	1	56.107	167.0	1	56.102	169.5	1
173.5	1	56.142	173.0	1	56.122	199.0	1
207.5	1	56.093	220.5	1	56.092	259.0	1
897.0	1	56.232	898.0	1	56.196	2460.0	1
2849.0	1	56.221	3090.0	1	56.243	3200.5	1
3202.0	1	56.234	3204.0	1	56.247	3209.0	1
3237.5	1	56.119	3250.5	1	56.244	3754.5	4
4135.5	1	56.282				57.315	

SECTION : 1

FROM - FENWAY TO - LONGWOOD					
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	0.01	1	0.5
4	57.75	57.25	0.09	5	4.0
2	57.25	57.00	1.41	32	62.0
0	57.00	56.25	96.39	58	4241.0
-1	56.25	56.00	2.10	27	92.5
-3	56.00	-99.00	0.00	0	0.0

ONES	IRT CLASS	TIGHT	WIDE	WIDE THIN
0+1+2+4	1+2	56.00	57.75	99.99
0+1+2	3	56.00	57.25	99.90
0+1	4	56.00	57.00	99.45
6+3	BELOW STNDRD	56.00	57.75	0.01

Figure 38 Fenway Park to Longwood Data (cont'd)



FROM - LONGWOOD
TO - BROOKLINE VILLAGE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
48.5	0	58.5	1	53.0	0	55.0	1
291.0	1	398.0	0	401.5	1	402.0	0
404.0	0	405.5	1	408.5	0	409.0	1
439.0	1	450.5	0	451.5	1	470.0	0
487.5	0	491.5	2	572.0	0	584.5	2
756.5	2	765.0	0	766.0	2	767.5	0
951.5	0	954.5	2	955.5	4	956.5	2
962.0	2	1001.5	0	1005.5	2	1035.0	0
1040.5	0	1041.0	2	1332.0	0	1335.0	1
1526.5	2	1800.0	0	1802.0	2	243.5	0
2798.0	0	2806.0	2	2814.0	0	2812.5	2
2859.0	2	2935.0	0	2923.0	1	2951.0	0
2965.5	4	2975.0	0	2986.0	0	2998.5	2
3004.5	2	3018.5	0	3024.0	2	3011.5	4
3122.0	0	3135.0	2	3205.5	0	3034.5	2
3482.5	2	3519.0	0	3501.5	2	3618.0	0
3816.0	0	3816.5	2	4010.5	0	4011.5	2
4017.0	2	4090.5	0	4091.0	2	4075.0	0
4791.5	0	4815.0	2	4876.0	0	4895.0	2
4906.0	2	4918.5	0	4925.0	1	4733.5	4
4949.0	0	4951.5	2	4962.0	4	4957.0	2
5001.5	2	5002.0	4	5002.5	2	5003.5	4
5016.5	0	5019.5	2	5027.0	0	5027.0	2
5043.5	2	5073.5	0	5075.0	2	5137.5	2
5150.0	0	5155.0	2	5156.0	4	5156.5	4
5178.5	2	5179.0	0	5185.0	2	5184.0	0
5196.0	0						

Figure 39 Longwood to Brookline Village Data

PAGE B 1

FROM - LONGWOOD TO - BROOKLINE VILLAGE GROUT		FEET			MAX MAGNITUDE			FEET			MAX MAGNITUDE		
FEET	ZONE	FEET	ZONE	FEET	MAX MAGNITUDE	FEET	ZONE	FEET	ZONE	FEET	MAX MAGNITUDE		
50.5	1	55.0	1	60.0	1	65.0	1	70.0	1	75.0	1	80.0	1
401.5	1	407.5	1	413.5	1	419.5	1	425.5	1	431.5	1	437.5	1
409.0	1	439.0	1	469.5	1	499.5	1	529.5	1	559.5	1	589.5	1
955.5	4	977.0	4	998.5	4	1019.0	4	1040.5	4	1061.0	4	1081.5	4
3000.0	4	3084.5	4	3169.0	4	3253.5	4	3338.0	4	3422.5	4	3507.0	4
4938.5	4	5024.0	4	5110.5	4	5197.0	4	5283.5	4	5370.0	4	5457.5	4
5003.5	4	5079.5	4	5156.0	4	5233.5	4	5310.0	4	5387.5	4	5465.0	4

Figure 39 Longwood to Brookline Village Data (cont'd)

		FROM - LONGWOOD		TO - BROOKLINE VILLAGE		GRADE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.		
6	99.00	57.75	0.00	0	0.0		
4	57.75	57.25	1.08	13	56.0		
2	57.25	57.00	5.89	55	306.5		
0	57.00	56.75	92.68	53	481.5		
1	56.25	56.00	0.75	10	18.0		
3	56.00	-99.00	0.09	0	0.0		

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	98.92
0+1	4	56.00	57.00	0.07
6+3	BELMUL STMDPPI	56.00	57.75	0.00

Figure 39 Longwood to Brookline Village Data (cont'd)



FROM - BROOKLINE VILLAGE
TO - BROOKLINE HILLS
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
79.5	0	81.5	2	82.0	0	91.5	2
114.5	2	501.0	0	503.5	2	505.5	0
581.0	0	584.5	2	866.5	0	867.0	2
1283.0	2	1283.5	0	1295.0	2	1365.5	0
1385.0	4	1396.5	2	1409.0	0	1415.5	2
1427.0	0	1439.0	2	1442.0	0	1452.0	4
1483.0	0	1492.0	2	1492.5	4	1493.0	2
1501.5	2	1506.5	0	1508.0	2	1508.5	0
1517.5	0	1522.5	2	1530.0	4	1535.5	2
1565.5	2	1567.0	4	1594.5	2	1640.5	0
1669.5	0	1674.0	2	1675.5	0	1677.5	0
1680.5	2	1691.0	4	1705.0	0	1722.0	2
1796.0	0	1737.0	2	1803.0	0	1810.0	0
1814.0	2	1814.5	4	1823.0	0	1829.5	0
1987.0	0	1958.0	1	2003.0	0	2008.5	2
2332.0	2	2349.0	0	2349.0	2	2359.5	0
3048.0	0	3048.0	2	3074.5	0	3090.5	2
3121.5	2	3124.0	0	3125.0	0	3126.0	0
3128.0	0	3139.0	2	3173.0	0	3145.0	2
3182.0	2	3239.5	0	3247.4	0	3248.5	2
3216.0	0	3281.0	2	3295.7	0	3323.0	2
3321.0	2						

Figure 40 Brookline Village to Brookline Hills Data

FROM - BROOKLINE VILLAGE TO - BROOKLINE HILLS						PAGE F 1					
FEET			MAX MAGNITUDE			FEET			MAX MAGNITUDE		
	ZONE	ZONE		ZONE	ZONE		ZONE	ZONE		ZONE	ZONE
1385.0	4	4	57.473	1420.5	4	57.277	1452.0	4	57.497		
1492.5	4	4	57.251	1493.5	4	57.278	1530.0	4	57.355		
1567.0	4	4	57.275	1691.0	4	57.267	1611.0	4	57.251		
1814.5	4	4	57.252	1958.0	1	56.245	7416.5	4	57.249		
3248.5	4	4	57.420	3295.5	4	57.518	3295.5	4	57.310		

Figure 40 Brookline Village to Brookline Hills Data (cont'd)

REPORT C-1

FROM - BROOKLINE VILLAGE
TO - BROOKLINE HILLS
GAGS

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCUPANCIES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	1.63	14	64.0
2	57.25	57.00	9.62	52	365.5
0	57.00	56.25	88.67	39	3363.5
1	56.25	56.00	0.03	1	1.0
3	56.00	-99.00	0.00	0	0.0

ZONE	IRT CLASS	HTHT	LHNE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	55.00	57.25	98.32
0+1	4	56.00	57.00	1.67
6+3	BELOW STNDRD	56.00	57.75	1.00

Figure 40 Brookline Village to Brookline Hills Data (cont'd)



FROM - BROOKLINE HILLS
TO - BEACONSFIELD
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
88.0	0	91.0	2	115.5	0	125.0	2
129.5	2	139.5	4	176.0	2	178.0	0
191.0	4	229.5	2	248.5	0	260.0	2
257.0	2	257.5	0	265.5	2	267.5	0
272.5	0	273.5	2	281.5	0	285.5	2
296.0	2	306.0	0	309.0	2	318.0	0
351.0	4	364.5	2	369.5	4	375.0	2
381.5	2	1523.0	0	1524.0	1	1965.0	0
2015.0	0	2021.5	2	2022.0	3	2030.5	2
2049.0	2	2055.5	4	2057.5	2	2067.5	0
2097.0	0	2101.5	2	2115.0	0	2120.0	2
2122.5	2	2123.0	0	2124.0	2	2125.0	0
2156.5	0	2157.0	2	2157.5	0	2160.0	2
2182.5	2	2193.0	0	2212.0	1	2234.0	0
2289.5	4	2290.0	2	2305.0	4	2519.5	2
2322.0	2	2339.0	0	2361.5	2	2365.0	0
2477.5	0	2491.0	2	2505.5	0	2516.5	2
2707.0	2	2711.5	4	2719.0	2	2722.0	0
2823.0	0	2844.5	2	2847.5	4	2875.5	2
2861.5	2	2954.0	0	2957.5	2	3075.5	0
4161.0	0	4171.5	2	4197.0	0	4198.0	2
4296.5	2	4322.5	0	4327.0	2	4350.5	0
4400.5	0	4415.0	2	4426.5	0	4453.0	2
4466.5	2	4457.5	0	4471.0	2	4475.0	0
4516.5	0	4520.5	2	4525.0	4	4523.0	2
4566.5	2	4584.0	0	4585.5	2	4592.0	0
4725.0	0	4725.0	2	4737.0	0	4739.5	2
4741.5	2	4805.0	0	4810.0	2	4878.0	3
4839.0	0	4902.5	2	5011.5	0	5015.0	2

Figure 41 Brookline Hills to Beaconsfield Data

EPMN - BROOKLINE PMLS					
W - BEACONFIELD			E - BEACONFIELD		
FEET	ZONE	GRADE	FEET	ZONE	GRADE
5020.0	2	0.0%	5037.0	1	-0.5%
5135.5	3	-0.5%	5154.5	1	-0.5%
5143.5	2	-0.5%	5153.5	1	-0.5%

Figure 41 Brookline Hills to Beaconsfield Data (cont'd)

Figure 41 Brookline Hills to Beaconsfield Data (cont'd)

FROM - BROOKLINE HILLS				TO - BEAUCONSFIELD				PAGE B 1			
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
128.5	4	57.298	132.5	4	57.275	191.0	4	57.323	369.5	4	57.394
292.0	4	57.482	351.0	4	57.600	2048.5	4	57.713	2167.5	4	57.236
1524.0	1	56.229	2022.0	4	57.259	2289.5	4	57.264	2111.5	4	57.292
2055.5	4	57.489	2167.5	4	57.260	2845.5	4	57.291	2305.0	4	57.291
2305.0	4	57.431	2711.5	4	57.269				4525.0	4	57.291
			5077.0	4	57.292						

PHASE I
 ZONE = BROOKLINE HILLS
 TI = BEACONSFIELD
 (g.v., f)

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	59.00	57.75	0.00	0	0.0
4	57.75	57.55	1.24	16	105.5
2	57.55	57.00	0.95	78	557.6
0	57.00	56.25	8.10	63	4953.5
1	56.25	56.00	9.02	1	1.0
3	56.00	55.75	0.00	0	0.0

ZONE	UPPER LIMIT	LOWER LIMIT	TOTAL	% OF TOTAL
0+1+2+4	56.00	55.75	100.00	100.00
0+1+2	56.00	57.25	94.00	94.00
0+1	56.00	57.00	31.00	31.00
3+3	56.00	55.75	0.00	0.00

Figure 41 Brookline Hills to Beaconsfield Data (cont'd)

FROM - BEACONSFIELD
TO - RESERVOIR
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
7.5	0	9.5	2	10.0	0	10.5	2
18.0	2	49.5	0	50.5	2	51.5	0
86.0	0	86.5	2	86.0	0	107.0	2
139.0	2	163.0	0	171.5	2	202.0	0
241.0	0	296.0	2	314.5	0	405.0	2
459.0	2	581.5	0	590.0	2	695.5	0
759.0	0	780.0	2	791.5	0	944.5	2
1374.0	2	1375.5	0	1383.0	2	1388.5	2
1448.5	0	1449.5	2	1458.5	0	1647.5	2
1532.0	2	1782.5	0	1797.5	2	2115.5	0
2359.5	0	2700.0	2	2864.5	0	3364.0	2
2389.5	2	2410.0	0	2410.5	2	2417.5	0
2416.5	0	2426.5	2	2476.0	0	2492.5	2
2777.5	2	2783.5	0	2793.5	2	2802.5	0
2801.5	0	2803.0	1	2817.5	0	2831.5	1

Figure 42 Beaconsfield to Reservoir Data

FROM = BEACONSFIELD
 TO = RESEPODIP
 GridE
 FEET ZONE MDT: Height TIME
 2792.5 4 57.289 2803.0 1 56.183

Print G 1

Figure 42 Beaconsfield to Reservoir Data (cont'd)

		FROM - BEACONSFIELD		TO - RESERVOIR		GAUGE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.		
6	99.00	57.75	0.00	0	0.0	0.0	
4	57.75	57.25	0.05	1	1.5		
.2	57.25	57.00	5.25	36	157.5		
0	57.00	56.25	94.65	36	2839.5		
1	56.25	56.00	0.05	1	1.5		
3	56.00	-59.00	0.00	0	0		
ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL			
0+1+2+4	1+2	56.00	57.75	100.00			
0+1+2	3	56.00	57.25	99.95			
0+1	4	56.00	57.00	94.70			
6+3	BELOW STATION	56.00	57.75	1.00			

Figure 42 Beaconsfield to Reservoir Data (cont'd)



FROM - RESERVOIR
TO - CHESTNUT HILL
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
31.5	0	32.0	2	72.5	0	73.0	2
102.5	2	123.0	0	123.5	2	125.5	0
132.0	0	139.0	2	469.0	0	475.0	2
490.5	2	502.0	0	504.5	2	505.5	4
514.0	0	516.0	1	521.0	0	523.0	2
849.5	2	921.0	0	920.5	2	938.5	0
968.0	0	972.0	2	1513.5	0	1514.0	1
1817.0	2	3321.0	0	3321.5	2	3322.0	0
3526.0	0	3532.0	2	4359.5	0	4359.5	2
4490.0	2	4492.5	0	4493.5	2	4515.0	0
4517.5	0	4518.0	2	4518.5	0	4519.5	2
4970.5	2	4976.0	4	4980.5	2	4983.0	0
5007.5	0	5008.5	2	5018.0	4	5025.0	2
5038.5	2	5042.0	4	5045.5	2	5063.5	0
5079.5	4	5087.5	2	5095.5	0	5097.5	2
5102.5	2	5128.0	0	5128.5	2	5148.5	0
5174.5	0	5177.5	2	5179.0	0	5185.5	2
5210.0	2	5221.5	0	5225.5	2	5229.5	4
5235.0	4	5241.5	2	5253.5	0	5257.5	2
5275.5	2	5281.0	0	5283.5	2	5297.5	4
5343.5	0	5356.5	2	5359.5	0	5363.5	2
5417.0	2	5417.5	0	5421.5	2	5463.5	0
5449.0	4	5471.5	2	5517.5	0	5522.5	2
5533.0	2	5534.0	4	5535.5	2	5546.5	0
5580.5	0	5593.5	2	5668.5	0	5672.5	2
5638.0	2	5694.0	4	5704.5	2	5705.5	0
5715.0	0	5850.0	2	5778.5	4	5773.5	2
5805.0	2	5807.5	4	5819.5	2	5815.5	0
5834.5	0	5835.5	2	5837.5	0	5902.5	2

Figure 43 Reservoir to Chestnut Hill Data

TO - CHESTNUT HILL					
FEET	ZONE	FEET	ZONE	FEET	ZONE
5998.5	2	6023.5	0	6036.5	2
6046.0	4	6049.0	2	6052.5	0
6059.5	2	6093.5	4	6093.5	2
6152.0	3	6157.0	2		

Figure 43 Reservoir to Chestnut Hill Data (cont'd)

Figure 43 Reservoir to Chestnut Hill Data (cont'd)

FEET	ZONE	MAX MAGNITUDE	FROM - RESEVOIR		TO - CHESTNUT HILL		MAX MAGNITUDE
			FEET	ZONE	FEET	ZONE	
505.5	-1	57.380	715.0	1	65.140	1	75.140
4350.5	1	56.220	4175.0	1	50.220	1	50.220
5042.0	-1	57.297	5037.5	4	57.357	3	5203.0
5239.5	-1	57.295	5239.0	4	57.355	3	5237.5
5479.0	-1	57.468	5390.5	4	57.340	3	5334.0
5634.0	-1	57.469	5580.0	4	57.2	1	5817.5
6046.0	-1	57.346	6093.5	4	57.1	1	6137.5

PORF C 1

FROM - PERIMETER
TO - CHESTNUT HILL
GAGE

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	No. TUBULARS	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	1.48	17	91.0
2	57.25	57.00	5.44	78	590.5
0	57.00	56.25	92.02	64	5701.0
1	56.25	56.00	11.06	5	55.5
3	55.00	—	—	—	—

ZONE	IPT CLAS	TIGHT	NAME	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.75	—
0+1	4	56.00	57.75	—
5+7	BELLO STIFFEN	56.00	57.75	—

Figure 43 Reservoir to Chestnut Hill Data (cont'd)

FROM - CHESTNUT HILL
TO - NEWTON CENTER
GAZE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
1.5	0	9.0	2	12.0	4	15.5	2
43.5	2	50.0	4	57.5	2	69.0	0
119.0	0	123.0	2	145.0	0	147.5	2
180.0	2	192.0	0	195.5	2	199.5	4
205.5	4	211.5	2	224.0	0	227.5	2
249.5	2	272.5	0	289.0	2	289.5	0
314.0	0	329.0	2	329.5	0	330.0	2
387.0	2	388.0	0	391.5	2	433.5	0
449.0	4	460.0	2	481.5	0	492.5	2
516.5	2	517.0	0	526.0	2	551.0	0
639.0	0	642.0	2	647.0	0	658.0	2
674.5	2	677.0	0	680.5	2	715.5	0
722.5	4	723.5	2	728.0	4	743.5	2
776.0	2	778.0	4	781.0	2	794.5	0
855.0	0	855.5	2	871.0	0	872.5	2
959.0	2	994.0	0	1009.5	2	1007.5	0
1016.0	4	1019.0	2	1032.0	0	1038.0	2
1060.0	2	1064.0	4	1075.0	0	1091.0	0
1122.0	0	1127.0	2	1175.0	0	1244.5	2
1537.5	2	1579.5	0	1579.5	0	1601.0	0
1610.0	0	1611.0	2	1611.0	0	1648.5	2
1722.0	2	1723.0	0	1771.5	2	1933.5	0
1836.5	0	1837.0	2	1876.0	0	2025.5	2
3031.5	2	3093.5	0	3200.0	2	3204.5	0
4517.5	0	4519.0	2	4519.5	0	4520.5	2
4744.0	1	4744.5	0	4744.5	0	4745.5	0
6544.0	0	6544.5	2	6571.0	0	6542.0	0
6579.0	2	6643.5	0	6571.0	0	6575.5	2
6675.0	0	6875.5	2	6771.5	0	6877.5	2

Figure 44 Chestnut Hill to Newton Center Data

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FROM - CHESTNUT HILL
TO - NEWTON CENTER
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
6759.5	0	7711.0	2	8777.5	0	9741.0	0
7073.5	0	7712.0	1	8778.5	1	9742.0	1
7081.5	1	7713.0	1	8779.5	1	9743.0	1
7612.0	1	7714.0	1	8780.5	1	9744.0	1
7837.5	2	7715.0	0	8781.0	1	9745.0	1
8211.0	1	7716.0	2	8782.0	1	9746.0	1
8356.5	2	7717.0	2	8783.0	1	9747.0	2
8377.5	3	7718.0	2	8784.0	1	9748.0	2
8795.0	2	7719.0	2	8785.0	1	9749.0	1

Figure 44 Chestnut Hill to Newton Center Data (cont'd)

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
12.0	4	57.287	50.0	4	57.303	199.5	4	57.281
205.5	4	57.289	237.5	4	57.474	449.0	4	57.459
500.5	4	57.386	654.0	4	57.414	703.0	4	57.355
728.0	4	57.279	778.0	4	57.335	1016.0	4	57.345
1064.0	4	57.396	3995.0	1	56.084	4744.0	1	56.246

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FROM - CHESTNUT HILL
 TO - NEWTON CENTER
 G.H.S.C.

Figure 44 Chestnut Hill to Newton Center Data (cont'd)

		FROM - CHESTNUT HILL		TO - NEWTON CENTER		GAGE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.		
6	59.00	57.75	0.00	0	0.0		
4	57.75	57.25	0.80	13	72.0		
2	57.25	57.00	5.01	92	451.0		
0	57.00	56.25	94.17	81	8475.0		
1	56.25	56.00	0.00	2	0.0		
3	56.00	55.75	0.00	0	0.0		
ZONES	IRBT CLASS	TIGHT	WIDE	% OF TOTAL			
0+1+2+4	1+2	56.00	57.75	100.00			
0+1+2	3	56.00	57.25	99.20			
0+1	4	56.00	57.00	0.00			
6+3	BELDING STATION	56.00	57.75	0.00			

Figure 44 Chestnut Hill to Newton Center Data (cont'd)

FROM - NEWTON CENTER

TO - NEWTON HIGHLANDS

GAGE

FEET	ZONE								
47.0	0	49.0	2	485.5	0	487.0	2	800.0	0
805.5	2	805.5	0	807.0	2	808.0	2	1015.5	0
884.0	0	890.5	2	1017.0	0	1007.5	2	1213.0	2
1019.0	2	1039.0	0	1040.5	2	1003.0	0	1440.0	0
1435.5	0	1438.5	2	1439.0	0	1402.0	0	1464.0	0
1468.5	2	1471.0	4	1475.0	2	1602.0	0	1616.0	0
1628.5	0	1669.5	2	1671.0	0	1672.0	2	1673.5	0
1673.5	2	1698.0	0	1700.0	2	1690.5	0	1702.5	0
1842.0	0	1842.5	2	1915.0	0	1897.0	2	1915.0	0
1926.5	2	2193.5	0	2199.0	2	2197.0	0	2197.0	0
2344.5	0	2353.5	2	2357.0	0	2354.0	2	2347.0	0
2380.5	2	2410.0	4	2411.0	2	2417.0	0	2417.0	0
2444.0	0	2470.0	2	2485.0	0	2491.0	2	2491.0	0
2551.0	2	2570.0	0	2575.0	2	2577.0	0	2577.0	0
2604.5	0	2613.5	2	2612.5	0	2617.0	2	2617.0	0
3622.5	2	3626.5	0	3635.0	2	3637.0	0	3637.0	0
3903.5	0	3906.5	2	3935.0	0	3937.0	2	3937.0	0
3940.5	2	3992.5	0	-457.5	1	-457.5	0	-457.5	0

Figure 45 Newton Center to Newton Highlands Data

Figure 45 Newton Center to Newton Highlands Data (cont'd)

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TO - NEWTON HIGHLANDS

FEET	ZONE	MAX MAGNITUDE	END POINT	END POINT	END POINT
1471.0	1	57.304	57.263	3997.5	56.201

		FROM - NEUTON CENTER			TO - NEUTON HIGHLANDS		
ZONE		UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.	(ft.)
6	99.00	57.75	0.00	0.00	0	0.0	
4	57.75	57.25	0.05	1	1	3.5	
2	57.25	57.00	2.19	44	118.5		
0	57.00	56.25	97.66	43	5273.5		
1	56.25	56.00	0.03	1	0.1		
3	56.00	-99.00	0.00	0	0.0		
		ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL	
0+1+2+4	1+2	56.00	57.75	100.00			
0+1+2	3	56.00	57.25	99.94			
0+1	4	56.00	57.00	97.75			
6+3	BELOW STD RD	56.00	57.75	0.00			

Figure 45 Newton Center to Newton Highlands Data (cont'd)



Figure 46 Newton Highlands to Eliot Data

FROM - NEWTON HIGHLANDS TO - ELIOT GAGE				TO - E			
FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
651.5	0	652.0	1	1328.0	0	1531.0	1
1923.5	1	2293.0	0	2312.0	2	2430.0	0
2438.5	0	2439.0	2	2461.5	0	2465.0	2
2548.5	2	2557.0	0	2568.0	2	2594.0	0
2623.5	0	2635.0	2	2655.0	0	2679.0	2
2798.0	2	2719.5	0	2725.5	2	2729.0	4
2758.0	0	2761.0	2	2763.0	0	2797.0	2
2812.5	2	2831.0	0	2845.0	2	2853.0	0
2957.5	0	2861.0	2	2933.0	0	2991.0	2
2941.5	2	2990.0	1	2993.0	2	3020.0	0
3026.5	4	3031.5	1	3165.0	0	3173.0	2
3296.0	2	3552.0	0	3555.0	1	3556.0	0
3585.0	0	3589.5	1	3592.5	1	3595.0	2
3550.0	2	3950.5	1	3851.0	2	3955.0	1
4065.0	0						

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FEET	ZONE	MAG: MAGNITUDE		FEET	MAG: MAGNITUDE		FEET	MAG: MAGNITUDE	
		MAX	MIN		MAX	MIN		MAX	MIN
552.0	1	5.0	4.0	172.0	1	5.0	1287.0	1	5.0
2,229.0	4	5.0	4.0	320.0	1	5.0	221.0	1	5.0
3,905.0	4	5.0	4.0	470.0	1	5.0	320.0	1	5.0

Figure 46 Newton Highlands to Eliot Data (cont'd)

FROM - NEWTON HIGHLANDS						
TO - ELIOT						
Gauge						
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.	
6	99.00	57.75	0.00	0	0.0	
4	57.75	57.25	0.17	4	10.0	
2	57.25	57.00	-4.05	33	275.0	
0	57.00	56.25	56.70	32	5550.5	
1	56.25	56.00	0.08	3	4.5	
3	56.00	-39.00	0.03	0	0.6	

ZONES						
IRT CLASS						
TIGHT						
0+1+2+4	1+2	56.00	57.75	100.00		
0+1+2	3	56.00	57.25	59.88		
0+1	4	56.00	57.00	95.78		
6+3	BELOW STNDRD	56.00	57.75	0.00		

Figure 46 Newton Highlands to Eliot Data (cont'd)



Figure 47 Eliot to Waban Data

FROM - ELIOT				TO - WABAN			
TO - WABAN		FROM - ELIOT		TO - WABAN		FROM - ELIOT	
ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET
1	1439.5	1	1440.5	1	1514.5	1	1505.0
2	3798.0	2	4346.0	2	4544.0	2	4571.0
3	4607.5	3	4609.0	3	4611.0	3	4613.5
4	4623.0	4	4673.5	4	4737.0	4	4750.0
5	4983.0	5	4984.0	5	5081.0	5	5097.5

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FROM = EL 70°T		TO = WABAN		TIME = 1941 MARCH TIME	
FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	TIME
1440.5	1	56.245 57.179	1511.5 1517.5	2	56.245 56.247
4350.0	4			3	56.247

Figure 47 Eliot to Waban Data (cont'd)

FROM - ELIOT TO - WABAN					
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.02	0	0.0
4	57.75	57.25	0.02	1	1.0
2	57.25	57.00	0.43	5	25.5
0	57.00	56.25	99.43	11	5369.0
1	56.25	56.00	0.06	4	3.5
3	56.00	-99.00	0.00	1	1.

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.98
0+1	4	56.00	57.00	99.49
6+3	BELOW STIRP	56.00	57.75	1.71

Figure 47 Eliot to Waban Data (cont'd)



FROM - URBAN
TO - WOODLAND
GAGE

FEET	ZONE	ZONE		EFFECT	ZONE	FEET
		1	2			
2.0	0	5.0	2	0.5	2	2.0
26.5	2	281.5	1	1.0	0	26.5
638.5	0	530.5	2	1.0	0	638.5
638.5	1	114.0	0	1.0	1	114.0
695.5	1	215.0	1	2.0	1	695.5
215.0	0	323.0	0	3.0	0	215.0
323.0	1	420.5	0	4.0	0	323.0
420.5	0	5187.0	4	4.0	2	420.5
4952.0				5.0	0	4952.0

Figure 48 Waban to Woodland Data

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FROM - WABAN
TO - WOODLAND
56°E

FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE	FEET	ZONE	MAX MAGNITUDE
5.5	4	5.5, 5.7	524.0	1	5.5	505.5	1	56, 5.40
1146.0	1	5.5, 5.6	2015.0	1	5.5, 5.6	2014.0	-	56, 1.00
3234.0	1	5.5, 5.6	2015.0	1	5.5, 5.6	2014.0	-	56, 2.14
47495.0	1	5.5, 5.6	47495.0	1	5.5, 5.6	47495.0	-	56, 3.30

Figure 48 Waban to Woodland Data (cont'd)

Figure 48 Waban to Woodland Data (cont'd)

FROM - WABAN		TO - WOODLAND		GAGE	
ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURRENCES	TOTAL FT.
6	99.00	57.75	0.00	0	0.0
4	57.75	57.25	0.02	2	1.0
2	57.25	57.00	0.56	9	31.5
0	57.00	56.25	99.01	19	5544.5
1	56.25	56.00	0.41	10	23.0
3	56.00	-99.00	0.00	0	0.0

ZONES	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	100.00
0+1+2	3	56.00	57.25	99.98
0+1	4	56.00	57.00	59.42
6+3	BELOW STNDRD	56.00	57.75	0.00

FROM - WOODLAND
TO - RIVERSIDE
GAGE

FEET	ZONE	FEET	ZONE	FEET	ZONE	FEET	ZONE
94.0	0	35.5	2	104.5	2	234.5	0
300.5	1	301.0	0	730.0	0	730.5	1
732.0	0	732.5	1	734.5	1	821.0	0
827.0	1	860.0	0	963.0	0	965.5	1
1380.0	0	1380.5	1	1606.0	1	2011.5	0
2022.0	2	3290.0	0	3752.0	0	3755.0	1
3356.5	0	3358.5	1	3753.0	0	3755.5	1
3655.0	6	3675.0	2	3756.0	1	3756.0	0
3657.5	2	3676.0	4	3759.0	6	3759.0	4

Figure 49 Woodland to Riverside Data

FROM - WOODLAND
TO - RIVERSIDE
GRADE

FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE	FEET	ZONE	MAX. MAGNITUDE
300.5	1	56.243	301.5	1	56.243	750.5	1	56.246
750.5	1	56.243	754.5	1	56.244	850.5	1	56.246
903.5	1	56.243	1000.5	1	56.244	950.5	1	56.246
3000.5	1	56.243	3353.0	1	56.249	1605.0	1	56.249
3053.5	3	56.243	-	-	-	1650.0	1	56.249
3158.5	6	56.243	-	-	-	1705.0	1	56.249

Figure 49 Woodland to Riverside Data (cont'd)

**FROM - WOODLAND
TO - RIVERSIDE
GAGE**

ZONE	UPPER LIMIT	LOWER LIMIT	% OF TOTAL	NO. OCCURANCES	TOTAL FT.
6	99.00	57.75	6.12	3	269.5
4	57.75	57.25	10.75	2	473.0
2	57.25	57.00	0.19	7	8.5
0	57.00	56.25	82.59	18	3634.0
1	56.25	56.00	0.28	14	12.5
3	56.00	-99.00	0.06	1	2.5

ZONE	IRT CLASS	TIGHT	WIDE	% OF TOTAL
0+1+2+4	1+2	56.00	57.75	93.82
0+1+2	3	56.00	57.25	83.87
0+1	4	56.00	57.00	82.87
6+3	BELOW STANDRD	56.00	57.75	6.18

Figure 49 Woodland to Riverside Data (cont'd)

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BORROW

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